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### THE NIMBUS 5 DATA CATALOG

VOI.UME 12

(Final)

1 OCTOBER 1974 THROUGH 30 NOVEMBER 1974
DATA ORBITS 8843 THROUGH 9660

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GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

### THE NIMBUS 5 DATA CATALOG

Volume 12 (Final)

1 October 1974 through 30 November 1974 Data Orbits 8843 - 9660

### Prepared by

Management and Technical Services Company Beltsville, Maryland

For the

LANDSAT/Nimbus Project

August 1975

GODDARD SPACE FLIGHT CENTER Greenbelt, Maryland

#### **FOREWORD**

This is the twelfth and final volume of a series of catalogs published to document data acquired from the Nimbus 5 meteorological satellite. This volume covers the period from 1 October 1974 through 30 November 1974. On 11 December 1974 Nimbus 5 will have been in orbit for two years. At the end of November useful data were still being received from the THIR, NEMS, ESMR, SCR, and ITPR. Availability of data from these experiments for periods after 30 November 1974 can be determined by writing to the National Space Science Data Center, Goddard Space Flight Center, Greenbelt, Maryland, 20771.

Background information concerning the Nimbus 5 meteorological satellite system and a description of the experiments and data formats have been published separately in The Nimbus 5 User's Guide. Post-launch User's Guide information changes and corrections are included in the data catalogs. The Nimbus 5 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of data.

The assembly and editing of this catalog was accomplished by the Management and Technical Services Company (MATSCO), Beltsville, Maryland, under contract number NAS 5-20694 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

D. FordyceProject ManagerLANDSAT/Nimbus ProjectGoddard Space Flight Center

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#### SECTION 1

### SUMMARY OF OPERATIONS

#### 1.1 Introduction

Nimbus 5 was successfully launched from the Western Test Range, Vandenberg Air Force Base, California at 07 hr. 56 min. 00 sec. on 11 December 1972. After achieving a near circular orbit (1089 km × 1102 km), all experiments and subsystems were successfully turned on. Data reception, accountability, and processing were intermittent prior to orbit 103 (18 December 1972) because of engineering evaluation of all spacecraft systems. Table 1-1 is a summary of the documentation for each Nimbus 5 Data Catalog volume 1 through volume 12.

Table 1-1
Nimbus 5 Catalog Documentation Summary

1 19 Dec. 72 - 31 Jan. 73 2 1 Feb. 73 - 31 Mar. 73 3 1 Apr. 73 - 31 May 73 4 1 June 73 - 31 July 73 5 1 Aug. 73 - 30 Sept. 73 6 1 Oct. 73 - 30 Nov. 73 7 1 Dec. 73 - 31 Jan. 74 8 1 Feb. 74 - 31 Mar. 74 9 1 Apr. 74 - 31 May 74 10 1 June 74 - 31 July 74 11 1 Aug. 74 - 30 Sept. 74	104 - 693 694 - 1485 1486 - 2304 2305 - 3123 3124 - 3942 3943 - 4761 4762 - 5593 5594 - 6385 6386 - 7204 7205 - 8023 8024 - 8842 8843 - 9660

The total operating time for each experiment from launch through orbit 9660 was:

ESMR 14,583 hours
ITPR 14,587 hours
NEMS 14,588 hours
SCR 14,588 hours
THIR 14,590 hours
SCMR: Direct 29 hours (No usable SCMR data Recorded 6 hours was recorded after orbit 320)

During this catalog period, the spacecraft was biased in pitch at +2.9 degrees. A positive pitch bias of 2.9 degrees moves the principal point 55.6 km behind the satellite subpoint.

The nadir location coordinates on ESMR, ITPR, SCR, and NEMS tapes, and the grid points on THIR and ESMR images are routinely adjusted for pitch bias. Any image grid still in error by more than 60 n.m. is identified in Table 2-2 under the column headed "Grid Correction". THIR and ESMR grid print maps, available through NSSDC, are also adjusted to match data points and their coordinates.

Roll and yaw attitude control have been within nominal limits during this period.

Data quality from both HDRSS recorders continues to be good. However, since June 1973 the amplitude of the flutter on HDRSS A has been twice that of HDRSS B. Thus, HDRSS A use is generally restricted to one orbit per day during the blind period when two tape recorders are required for global coverage.

The power, command/clock, Versatile Information Processor (VIP), and thermal subsystem performances continued to be satisfactory during this period.

Subsections 1.2 through 1.7 of this catalog summarize the operational highlights of the individual experiments and call attention to known data anomalies. Section 2 lists the times data was recorded and is available for study for each experiment. Sections 3 and 4 show ESMR and THIR imagery, while Section 5 presents corrections to The Nimbus 5 User's Guide.

The user is referred to The Nimbus 5 User's Guide for a complete description of each experiment and to Section 1. 7 of that Guide for the requesting procedure and sources for all data. Sections 2, 3, and 4 of this Data Catalog should help the user to select data to meet his needs.

### 1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem

The quality of THIR data from both channels has been good. Root mean square (rms) THIR temperature variations, due to HDRSS tape recorder and system noise,

are near 2.4°K for HDRSS B and 3.6°K for HDRSS A. The higher HDRSS A value is attributed to higher flutter in its recorder system.

### 1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment

The SCMR experiment collected and returned approximately 35 hours of instrument data during the first 320 orbits. Intermittent loss of a scan mirror synchronization pulse caused a loss of useful data output whenever this occurred. This synchronization problem progressed to the point where no useful data could be obtained after orbit 320 (4 January 1973).

Users who desire SCMR data or information should write to Dr. Warren G. Hovis, Code 940, Goddard Space Flight Center, Greenbelt, Maryland 20771.

### 1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment

The ESMR instrument performance during this period has been satisfactory, although there were times, as shown in Table 3-2 in Section 3, when the instrument operated in a reduced data output mode.

In the reduced data output level mode the instrument brightness temperature response range is between 110°K and 220°K. Its normal response range is between 110°K and about 300°K. Thus, the effect of the malfunction is to narrow the range to which the instrument can respond. There is no way to recover temperature data above 220°K. However, by applying offset corrections, temperature values below 220°K are considered to be accurate to within 10°K. Because many polar and atmospheric phenomena have brightness temperature lower than 220°K, investigations of these phenomena will be only slightly affected by the loss of high brightness temperatures.

On the ESMR image displays (Section 3) the effect of the temperature offset is to completely eliminate data information in swath 3, since its entire display temperature range, 254°K to 290°K, is above the new upper limit. Swath 2 temperature values range from 194°K to 266°K; thus, those values above 220°K are not shown at their true temperature. The offset does not affect values of swath 1, as its temperature limits are 110°K and 200°K.

A semi-quantitive calibration algorithm has been developed for these offset data. These calibrated data, as well as the normal data, are available through NSSDC as described in The Nimbus 5 User's Guide.

### 1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment

The ITPR instrument operated in the nadir mode except for brief periods during orbits 8972, 8986, 9054, and 9068 when it was in the scan mode. Scan performance was erratic each time. Sensor outputs from all seven channels have been normal.

### 1.6 The Selective Chopper Radiometer (SCR) Experiment

The SCR instrument has remained in the normal operating mode since shortly after launch. Useful data continues to be received from all A, B, and C channels. The D channels, when in high gain, have been affected by noise since orbit 3124 (1 August 1973). Since 21 September 1973 the data has been unusable. The problem is attributed to faulty relay contacts.

The SCR data is transmitted daily from Goddard Space Flight Center to the experimenter at Oxford, England. After processing and calibration, the data is output in several forms for analysis. Previous volumes of this catalog series show several output forms and provide discussion of some of the results from analysis of the SCR data.

### 1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment

The NEMS instrument continued to perform well during this catalog period. The experimenter at MIT, Cambridge, Massachusetts, continues to received all NEMS data and is using it for research. Examples and analysis of some of the output products are in volumes 1 through 3 of this catalog series.

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#### 1.8.6 ESMR and THIR

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- Allison, L. J., Rodgers, E. B., Wilheit, T. T., and Fett, R. W.: Tropical Cyclone Rainfall as Measured by the Nimbus 5 Electrically Scanning Microwave Radiometer. Bul. of Am. Met. Soc., Vol. 55, No. 9, September 1974, pp. 1074-1089

### 1.8.7 THIR, ESMR, and SCMR

Theon, J. S.: A Multispectral View of the Gulf of Mexico from Nimbus 5. Bul. of Am. Met. Soc., Vol. 54, September, 1973, pp. 934-937

#### 1.8.8 THIR

Wilkniss, P. E., Larson, R. E., Bressan, D. J., and Steranka, J.: Atmospheric Radon and Continental Dust near the Antarctic and their Correlation with Air Mass Trajectories Computed from Nimbus 5 Satellite Photographs. J. Appl. Meteorol., Vol. 13, No. 4, 1974, pp. 513-515

#### SECTION 2

#### THE ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES

The Nimbus 5 Brouwer Mean orbital elements for selected epochs during October and November 1974 are listed in Table 2-1.

Table 2-1

Nimbus 5 Brouwer Mean Orbital Elements
for October and November 1974

	<del></del>				
Epoch	Universal	8 OCT 74	22 OCT 74	7 NOV 74	22 NOV 74
Бросп	Time	00 00 00	00 00 00	00 00 00	00 00 00
Semi-Major Axis	Km	7473. 465	7473.462	7473.460	7473, 455
Eccentricity		.000920	.000888	. 000825	. 000814
Inclination	Degrees	99. 915	99, 915	99. 916	99. 917
Argument of					
Perigee	Degrees	61,630	28, 946	350,615	311, 763
Right Ascension of					
Ascending Node	Degrees	188. 158	201, 922	217, 553	232, 401
Height of Perigee	Km	1088.42	1088.66	1089.13	1089, 21
Height of Apogee	Km	1102.17	1101, 93	1101.46	1101.37
Anomalistic Period	Minutes	107. 1619	107. 1619	107. 1618	107. 1617
,	Deg. per				
Motion of Perigee	Day	-2, 4365	-2.4365	-2, 4365	-2.4364

The data availability on-off times (Table 2-2) list the times when the data from each instrument was recorded on a HDRSS.

THIR orbital coverage in Table 2-2 is divided between daytime and nighttime data. The THIR data is normally recorded simultaneously from both 6.  $7\mu$  m and 11.  $5\mu$  m channels. Therefore, the listed on-off times apply to both channels.

A THIR data orbit is defined as beginning and ending at the night-day terminator. Thus, the daytime data orbit extends from the night-day terminator to the day-night terminator. Each daytime THIR data orbit is assigned the orbit number of the ascending node which occurs during that portion of the orbit. The same orbit number is assigned also to the succeeding nighttime data orbit.

The "INT ORBIT & STDN" identify the orbit in which the satellite is interrogated and the ground station to which the satellite data is transmitted. The letter "R" denotes Rosman, North Carolina; the letter "A" denotes Fairbanks, Alaska.

The "HDRSS" identifies the satellite tape recorder, either A or B.

The "THIR GRID CORR" columns are used to indicate an image grid error in latitude and longitude whenever either is in error by more than one degree of great circle arc (60 n.m.). Latitude errors are suffixed by an N or S; longitude errors, by an E or W. An N or S indicates the grid should be moved up or down by the amount shown to obtain a good fit of the grid to the geography. An E or W indicates the grid should be moved right or left, at the equator, by the amount shown.

Ascending node times and longitudes are the times and longitudes at which the satellite crosses the equator in the northbound direction. These crossings always occur during the daytime portion of the orbit. The descending nodes and times refer to the southbound crossings, which occur during the nighttime portion of the orbit.

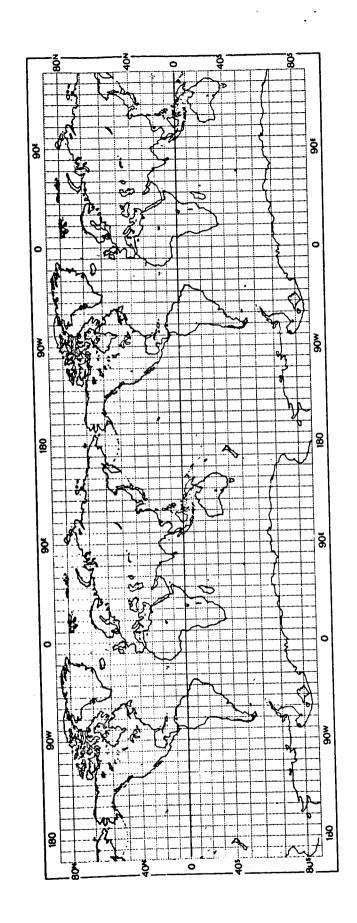
ESMR, NEMS, SCR, and ITPR are normally on all the time. Their sensory information is recorded on a HDRSS between interrogations, and their on-and-off times define the total record times between interrogations. An interrogation orbit is the orbit during which previously recorded data is transmitted to a ground station. This data will be from segments of two or more data orbits as defined above for THIR. To determine the orbital coverage of the data from any interrogation, the on-and-off times should be matched with the appropriate ascending or descending node listed with the THIR information on the same page of Table 2-2. Coverage can then be determined as described below.

The "DATA ORBIT" indicator in the ESMR table is given only for reference purposes. It is the number which appears on the data display image, samples of which are reproduced in Section 3, and identifies the last data orbit on each display. It should not be confused with the THIR data orbit number.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog, can be used to determine approximate geographic coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay coincides with the 0-degree latitude (equator) line of the World Map. Orbital coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit of interest,

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks, which end at the approximate earth day-night transitions. The tracks contain time ticks spaced 5



minutes apart, appropriately annotated at the edge of the overlay, referenced from the equator. Times in minutes from equator crossings for all or part of a particular orbit are calculated by adding to or subtracting from the ascending or descending node time listed for that orbit in the Data Availability On-Off Times Table.

The nature and format of the data to be available from each experiment are explained in detail in the respective sections of The Nimbus 5 User's Guide. The appropriate sources for requesting the various data types are listed in Section 1. 7 of the same manual.

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 1 OCTOBER 1974

	THIR						•		ESHR		
	•	INT	H	THIR	ASC. A					INT	н
	11.5 + 6.7	ORBIT		GRID	DESC.	NODE				ORHIT	D
DATA	ON OFF	•	R		TIME		DATA	ON	OFF	+	R
ORBIT	HRMN HRMN	STON	s	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME T	HIR			ASC. NO	3 D C					
8843	0115 0206	8845R	A		014548	E146.0	8843	C010	0209	8845R	A
8844	0305 0354	8844R	В		033105	E119.2	8844	0209	0408	8844R	В
8845	8452 0541	8845R	В		051821	E042.3	8845	0416	0555	8845H	8
8846	0640 0728	8846A	В		070538	E065.5	8846	0601	0/37	8846A	B
8847	0827; 0915	8847A	В		085254	E038.7	8847	0742	0923	8847A	8
8848	1014 1103	8848A	В		104011	E011.9	8848	0925	1108	8848A	В
8849	1201 1250	8849A	В		122727	W015.0	8849	1114	1255	8849A	8
8850	1349 1437	8850A	В		141443	W041.8	8850	1502	1442	8850A	8
8851	1536 1621	8851A	В		160200	WU68.6	8851	1447	1623	8851A	В
8852		8852A	В		174916	H095.4	8852	1625	1808	8852A	В
8853			B		193633	W122.2	8853	1814	1954	8853A	8
8854		8854A	в		212349	W149.0	8854	1458	2142	8854A	В
8855	2245 2527	8855A	В		231106	W1/5.9	8855	2147	2329	8855A	В
	NIGHITI	E THIR			DESC.	NODE		NEM	s - sc	R - ITP	R
8843	0209 0305	8844R	8		023740	H047.4		0011	0209	8845K	
8844					_	H0/4.2					A
8844			8 8		042435	40/402			0408 0555		B B
8845		-	_		061152	W101.1			0738		В
8845		8846A	9		001172	~10101			0923		8
8846	-	8846A	В		8759n9	W127.9			1109		8
8846		8847A	8		0, 3, 0,	412/4/			1256	8849A	В
8847		8847A	В		194625	W154.7			1442		В
8847		8848A	В		V.4025				1623	_	8
8848		8849A	8		113341	£178.5			1808	_	8
8849		8850A	В			E151.7		_	1954	_	8
8850		8851A	В			E124.9			2141		8
8851		8852A	8			EU98.0			2328	8855A	В
8852		8853A	В		_	E071.2		2140	2020	30778	
8853		8554A	8		_	EU44.4					
8854	_	8855A	В			E017.6					
8855		3077A	-			W009.2					
0077					*******	- 90782					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 2 OCTOBER 1974

	THIS	!						ESMR		
								********		
		INT	н	THIR	ASC.	AND			INT	н
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NODE			ORBIT	D
DATA	ON OFF	•	R	COKS	TIME	LUNG	DATA	ON OFF	•	R
ORBIT	HRMN HKMN	STDY	S	LALD	HRMNSS	DEG	ORBIT	HRMN HRMN	STDN	S
	DAYTIME T	HIR			ASC. N	DDŁ				
8856	0110 0121	88589	A		005822	E157.3	8857	0110 0308	8858R	A
8857	0219 0307	8858R	A		024538	E130.5	8858	0308 0507	8858R	В
8858	0407 0455	8858R	В		043255	E103.7	8859	0514 0657	8859R	8
8859	0554 0643	8859R	8			E0/6.9	5860	0/02 0838	8860A	3
8860	0741 0830	8860A	8		080728	EU>0.1	8861	0843 1023	8861A	В
8861	0929 1017	8861A	8		095444	E023.2	8862	1827 1207		В
8862	1116 1204	8862A	В		114201	W003.6	8863	1212 1355	8863A	8
8863	1303 1352	8863A	В		132917	HU30.4	8864	1401 1542	8864A	9
8864	1450 1539	8864A	8		151653	W057.2	8865	1547 1725	8865A	В
8865		8865A	븀		170350	H084.0	8866	1/31 1909	8866A	8
8866	1825 1907	8866A	8		185106	H110.9	8867	1914 2058	8867A	8
8867		8867A	8		203823	W137.7	8868	2103 2242	8868A	8
8868	2159 2241	8868A	8		222539	W164.5				-
	NIGHTTIM	E THIR			DESC.	NODE		NEMS - SC	R - ITP	'R
8856	0121 0219	8858R	A		015153	WU36.1		0110 0308	8858K	
8857	0308 0407	8858R	В			H062.9		0308 0507		8
8858	0455 0505	8858R	8			W089.7		0514 0658		В
8858	0514 0754	8859R	3					0/02 0838	8860A	9
8859	0643 0655	8859R	В		071342	W116.5		0843 1023	5861A	В
8859	0702 0/41	8860 A	В					1027 1208	8862A	В
8860	0830 0836	8860 A	В		090058	H143.3		1213 1355	8863A	В
8860	0843 0929	8861A	8			_		1400 1542	8864A	8
8861	1027 1116	8862A	В		104815	W170.1		1548 1726	8865A	8
8862	1213 1303	8863A	B		123531	E163.0		1731 1909	8866A	В
8863	1401 1450	8864A	В		142248	£136.2		1914 2059		8
8864	1548 1638	8865A	8		161084	E109.4		2103 2242	8868A	В
8865	1731 1825	8866A	8		175720	E082.6		<b></b>	, , , , , , , , , , , , , , , , , , ,	U
8866	1914 2012	8867A	В		194437	E055.8				
8867	2104 2159	8868A	В		213153	E029.0				
8868					231910	E002.1				

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 3 OCTOBER 1974

	THIR							ε	SHR		
		INT	н	THIR	ASC. A	ND				INT	4
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NODE				ORBIT	D
DATA	ON OFF	•	R	COKE	TIME	LUNG	DATA	ON	OFF	•	R
ORBIT	HRMN HRMN	STÓN	S	LALD	HRMNSS	DEG	ORBIT	HKMN	HRMN	STDN	S
ONB.											
						<b>.</b>					
	DAYTIME T	HIR			ASC. NO	JUE					
8869	0027 0035	8871R	A		001255	E168.7	8870	0027	0223	8871H	A
8870	0134 0222	8871R	Ä		020012	E141.9	8871	0226	0422	887 <u>1</u> R	в
8871	0321 0410	8871R	В		034728	E115.1	8872	0453	0613	8872R	В
8872	0508 0557	8872R	8		053445	E088.2	8873	0617	0752	8873A	8
8873	0656 0/44	8873A	В		072201	E061.4	8874	0757	0938	8874A	8
8874	0843 0930	8874A	В			E034.6	8875	0942	1128	8875A	8
•8875	1030 1119	8875A	В		105634	E007.8	8876	1133	1311	8876A	3
8876	1217 1306	8876A	В		_	W019.0	8877	1517	1452	8877A	В
8877	1405 1452	8877A	8		_	W045.9	8878	1502	1639	8878A	8
8878	1552 1638	8878A	В			HU72.7	8879	1644	1822	8879A	8
8879	1739 1821	8879A	В			W099.5	8880	1828	2007	8880 A	В
8886	1927 2005	8880A	8		-	W126.3	8881	2012	2152	8881A	8
8881	2114 2155	8881A	В			W153.1	8882	2202	2343	3882A	8
8882	2301 2342	8882A	В			180.0					
	2344 2350	8885R	Ā								
8882	2574 2550	0000									
-40 11	LOD DATA										
	NIGHITI	IE THIR			DESC.	NUDE		NEM	S - S	R - ITF	' K
8869	0035 0134	8871R	A			W824.7			0223	8871R	Α
8870	0225 0321	8871R	8			W051.5			0422	88718	В
8871	8410 0420	8871R	В		044059	H078.3		-	0612	8872R	8
8871	0433 0508	8872R	В						0753	8873A	9
8872	0557 0611	8872R	В		062815	W105.1			0939	8874A	8
8872	0618 0656	8873A	В						1128	8875A	В
8873	0744 0/50	8873A	8		081532	H132.0			1312	8876A	8
8873	0757 0843	8874A	В						1458	8877A	В
+8874	0943 1050	8875A	В		100248	W1>8.8	•		1639	8878A	8
*8875	1119 1124	8875A	В		115009	5 E1/4.4			1823	8879A	
8875	1133 1217	8876A	В						2007		
8876	1318 1405	8877A	В		13372	L E147.6		_	2157		
8877	1503 1552	8878A	8		15243	8 E120.8		5505	2344	5882A	В
8878	1644 1/39	8879A	Ð			4 E094.0					
8879		8880A	В			0 E067.1					
8880	2015 2114	8881A	8		20462	7 E040.3					
8881	2202 2301	8882A	В		22534	3 E013.5					
8882		8885R	A		00210	0 WU13.3					
	1.5 DATA										

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 4 OCTOBER 1974

	TH:	I R									
									ESMR		
		INT	н	THIR	ASC.	AND	*****	•••••			
	11.5 + 6.7	ORBIT		GRID	DESC.	NODE				INT	н
DATA	ON OFF	•	R	COKR	TIME	LUNG				ORBIT	0
ORBIT	HRMN HRMN	STON	S	LALD	HRMNSS	DFC	DATA	UN	OFF	•	R
						שבט	04811	HRMN	HRMN	STDN	S
	DAYTIME	THIR			ASC. NO	DDE					
8883	0048 0137	88529									
8884			A B		011445	E153.2	8883	2543	0125	8885R	
8885			8		030202	E126.4	8884	0142	0342	8884R	A
8886	0610 0659				044918	E099.6	8885	8549	0518	8885H	8
8887	0757 0846	8887A			063635	E0/2.8	8886	0232	0714	8886R	8
8888	0945 1033	000/A	В		082351	E046.0	8887		0853	8887A	8
8889	1132 1220		В		101107	E019.1	5888	0858	1041	3888A	8
8890	1319 1408	8889A	8		115824	W007.7	5889		1225		8
8891	1506 1554	8890A	В		134540	H034.5	8890	1238	1413	8889A	9
8892	1654 1/38	8891A	В		153257	W061.3	8891	1417	1552	8890A	8
8893		8892A	В		172013	WU88.2	8892		1740	8891A	В
8894	1841 1921	8893A	В		190/30	₩115.0	8893			8892A	8.
8895	2028 2112	8894A	В		205446	W141.8	8894	1000	1923	8893A	8
0045	2216 2257	8895A	В		224202	W168.6	8895		2113	8894A	8
							0043	2110	2258	8895A	8
	NIGHTTI	E THIR			DESC.	NODE			_		
								NEMS	s - sc	R - ITP	R
8883	0142 0236	8884R	8		020816	W048.1					
8884	0324 0338	8884R	В		035533	H067.0		2544		8885R	A
8884	0349 0423	8885R	3					0142		8884R	8
8885	0511 0525	8885R	В		054249	A.Fenis		0350		8885R	8
8885	0532 0610	8886R	В					0>32		88868	8
8886	0659 0/13	8886R	В		073005 1	4.20.4		0720		8887A	8
8886	0720 0/57	5887A	8		0.000	~120.6		0858		8888A	B
8887	0846 0851	8887A	8		091722	1147 4		1846		8889A	8
8887	0858 0945	8888A	В		0,1,55	-1-/		1230		8898A	8
8888	1033 1039	8888A	В		110438	1.74 .		1417		8891A	В
8888	1046 1132	8889A	8		110430	1/4.3		1602		8892A	8
8889	1229 1319	8890A	B		10516			1/45	1923	8893A	8
8890	1417 1506	8891A	8		125155 6	175.9		1928	2114	8894A	В
8891	1602 1654	8892A	В		143911 E		•	2119		8895A	8
8892	1745 1841	8893A	В		162628 E	105.3					•
8893	1930 2028	8894A	8		181344 E						
8894	2119 2216	8895A	8		290100 E						
8895		0077A	5		214817 E	024.8					
				;	233533 W	002.0					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 5 OCTOBER 1974

	THIR							-	SMR		
		INT		THIR	ASC. A	ND				INT	Н.
	7	ORBIT	D	GRID	DESC.				•	ORBIT	0
	11.5 + 6.7		3	COHE	TIME	LUNG	DATA	ÜN	UFF	•	R
DATA	ON OFF	+, -TDN		LALD	HRMNSS		ORBIT		HRMN	STDN	S
ORBIT	HRMN HKMN	STDN	S	LALJ	пиниоо	<i>J</i> LG				_	
	DAYTIME	THIR			ASC.	NOUE					
•8896	0043 0051	8898R	A		002919	E164.6	8897		0241	8898R	Ą
8897	0150 0239	8898R	A		021635	E137.8	5898	_	0433	8898K	8
8898	0337 0426	8898R	8		040352	E111.0	8899		0649	8900A	В
8899	0525 0613	8900A	В		055108	E084.1	8901		0957	8901A	В
8900	*****				073825	E057.3	8902		1146	8902A	8
8901	0859 0948	89014	В		092541	E030.5	8903		1330	8903A	8
8982	1046 1135	8902A	В		111257	E003.7	8904	1335	1512	8904A	8
8903	1234 1322	8903A	8			W023.1	8905		1657	8905A	8
8904	<del>-</del> -	8904A	В			HU50.0	8906		1838	8906A	В
8905		8905A	В		163447	W8/6.8	8907	1842	2028	8907A	В
8906		8906A	В		182203	W103.6	8908		2212	8908A	в
	1943 2027	8907A	В		200920	W130.4	8909	2217	0002	8909A	В
8908		8908A	8		215636	W157.2					
8989		8909A	8			E1/6.0					
8909		8912R	Ā			-					
	.7 DATA	•									
						_					30
	NIGHTTI	4E THIR			DESC.	NUDE		NET		CR + IT(	
-8896	0051 0150	8898R	A		012250	W028.8		0043	0241	8898R	A
8897			9		031006	W055.6		0241	8434	8898K	8
8898	<del>-</del>					W082.4		0448	0650	8900A	8
8898		8900A	В					0816	0956	8901A	9
8899	•	8900A	8		064439	W109.5		1000	1146	8902A	8
		8901A	_			5 #136·1		1150	1330	8903A	8
8900	- <del>-</del>	8901A				H162.9		1339	1513	8904A	Ė
8901		8902A						151	1657	8905A	5
8901		89024			12062	8 E1/0.3		1702	1838	8986A	6
8902					12002			184	2029	8907A	Ε
8902		8903A			135349	5 E143.5			2212		6
8903					10704				5 0002		ť
8903	_	8904A			15410	1 E116.7					
8984	_					7 EU89.8					
8905						4 E063.0					
8906	_					0 EU36.2					
8987						7 E009.4					
8988	_										
*8989			t A	1	003/2	3 HU17.4					
	DATA CHANGE										
8896		88988	} A	١							
8989	NO DATA										

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 6 OCTOBER 1974

	THI	R							=		
							*****		ESMR		
		INT	H	THIR	ASC.	ND					
	11.5 + 6.7	ORBIT	D	GRID	DESC.					INT	H
DATA	ON OFF	•	R	CORR	TIME	LUNG	DATA	0 N	OFF	ORBIT	Ð
ORBIT	HRMN HKMN	STDN	S	LALJ	HRMNSS	DEG	ORBIT		HRMN	•	R
							0.(01)	пкпи	HKHN	STDN	S
	DAYIIM	Ftuta									
	24	- ''' - '			ASC.	NODE					
*8910	0105 0153	8912R	A		041407	F					
*8911	0252 0340	8911R	8		013107	£149.1	8910		0155	8912R	A
*8912	0439 0528	8912R	В		031823	E122.3	8911	01>7	0356	8911K	8
8913	0626 0/15	8913A	В		050540	EU 45.5	8912	0405	0541	8912H	8
8914	0814 0902	8914A	8		065256	EU68./	8913	0 > 4 7	0724	8913A	В
8915	1001 1049	8915A	В		084013	EU41.9	8914	0/29	0911	8914A	В
8916	1148 1237	8916A			102/29	E015.0	8915	0916	1101	8915A	8
8917	1335 1424	8917A	8		121445		8916	1106		8916A	В
8918	1523 1611	8918A	8		140202	H038.6	8917	1250		8917A	В
8919	1710 1/55		В		154918	H065.4	8918	1454		8918A	a
8920	1857 1938	8919A	В		173635	WUY2.2	5919	1619		8919A	В
8921		8920A	В		192351	W119.1	8920	1001		8920A	
8922	2044 2129	8921A	8		211117		8921	1945		8921A	9 3
	2232 2312 7 DATA	8922A	В		225824	W172./	8922	2135		89224	B
	NIGHITIM	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R
*8910	0157 0252	8911R	В		022458	1044 7					
*8911	0340 0354	8911R	B		041154	1044.3		2359	0156	8912R	A
*8911	8405 8439	8912R	В		041154	*0/1.1		01>7	0356	8911R	B
*8912	0528 0540	8912R	8		055044			0405	0542	8912R	8
8912	0547 0626	8913A	8		055911	1097.9		8547		8913A	8
8913	0715 0724	8913A	В					0/28	0911	8914A	9
8913	0729 0814	8914A	В		874627 W	1124.7		0916	1101	8915A	B
8914	0902 0909	89144	_					1107		8916A	В
8914	0916 1001	_	В		093343 W	1151.5		1250	1429	8917A	8
8915	1049 1059	8915A	В					1454		8918A	8
8915	1107 1148	8915A	Ð		112100 H	178.3		1619	_	8919A	В
8916		8916A	В					1802		8920A	
8916	1237 1243	8916A	8		130816 E	154.8		1945			8
8917	1250 1335	8917A	В					2135		8921A	В
8918	1434 1523	8918A	8		145533 E	128.0			10	8922A	В
	1619 1/10	8919A	8		164249 E						
8919	1802 1857	8920A	В		183005 E						
8920	1946 2044	8921A	8		201722 E	047.6					
8921	2136 2232	8922A	В		220438 E						
8922					235155 W						
*NO 5.7	7 DATA										

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 7 OCTOBER 1974

8925 0354 0442 8925R B 042013 E106.9 8926 0503 0648 8927A 8926 0541 0629 8927A B 060729 EU80.0 8927 0648 0828 8927A 8927 0728 0817 8927A A 075446 E053.2 8928 0828 1013 8928A 8928 0915 1004 8928A B 094202 E026.4 8929 1018 1158 8929A 8929 1103 1151 8929A B 112919 HU00.4 8930 1202 1344 8930A 8931 1437 1526 8931A B 150552 H054.1 8932 1520 1529 8931A 8931 1437 1526 8931A B 150552 H054.1 8932 1523 1714 8932A 8932 1624 1712 8932A B 165108 HU80.9 8935 1719 1853 8933A 8933 1812 1849 8933A B 183824 H107.7 8934 1058 2042 8934A 8934 1959 2041 8934A B 202541 H134.5 8935 2146 2227 8935A B 221257 H161.3 8935 2146 2227 8935A B 221257 H161.3 8935 2047 2229 8935A 8935 2146 2227 8935A B 051344 H086.5 0503 0649 8925A 8925 0503 0541 8927A B 051344 H086.5 0503 0649 8927A 8925 0642 0543 8927A B 070100 H13.3 0828 1013 8928A 8927 0829 0915 8926A B 103533 H167.0 1528 8931A 8932 1574 1658 8929 1202 1250 8930A B 122250 E166.2 1858 2043 8934 8934 8939 1279 1858 8929 1202 1250 8930A B 122250 E166.2 1858 2043 8934 8934 8939 1202 1250 8930A B 122250 E166.2 1858 2043 8934 8934 8939 1202 1250 8930A B 122250 E166.2 1858 2043 8934 8934 8939 1202 1250 8930A B 122250 E166.2		THIR							6	SMR		
NATA						ASC.	AND	*****			INT	4
DAYTIME THIR ASC. NOUE  *8923 0058 0108 8925R A 004540 E160.5 8925 0313 0454 8925 8925 0354 0442 8925R B 042013 E106.9 8926 0503 0648 8027 8925 0354 0442 8925R B 042013 E106.9 8926 0503 0648 8027 8927 0728 0817 8927 A 075446 E053.2 8928 0828 1013 8928 8927 0728 0817 8929 B 04202 E026.4 8929 103 1151 8929 B 112919 4000.4 8930 1202 1344 8930 8930 1250 1338 8930 B 131635 4027.2 8931 1350 1529 8931 8930 1437 1526 8931 A 151635 4027.2 8931 1350 1529 8931 8933 1412 1849 8933 B 183824 4107.7 8934 1858 2042 8935 A 8934 1959 2041 8933 B 22257 41613  **NO 6.7 DATA**  **NIGHITIME THIR**  **DESC. NUDE**  **NEMS - SCR - IT**  **NO 6.7 DATA**  **NO 6.7 DATA**  **NIGHITIME THIR**  **DESC. NUDE**  **NEMS - SCR - IT**  **NO 6.7 DATA**  **NO 6.7 DATA**  **NO 6.7 0847 8927 B 070100 M113.3 0828 1013 8928 A 1018 1558 8927 A 1018 1568 8927 A 1018 1568 8927 A 1018 157 8927 B 1018 157 8935 1018 157 8935 1018 157 8935 1018 157 8927 B 1018 157 8928 B 1051344 4086.5 B 1018 1588 8927 A 1018 157 8928 B 1051344 4086.5 B 1018 157 8928 B 1051344 4086.5 B 1018 157 8928 B 1051344 4086.5 B 1018 157 8928 B 105134 4086.5 B 1018 157 8928 B 105134 4086.5 B 1018 157 8928 B 1018 158 8927 A 1018 158 8929 A 1018 10			ORBIT								ORBIT	Ð
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NIGHITIME THIR DESC. NUDE NEHS - SCR - IT    6923	8934	1959 2041	8934A	Β		202541	W134.5	8935	2047	2229	8935A	В
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6924       0308       0354       8925R       B       032628       WU59.7       0313       0455       8925R         6925       0442       0453       8925R       B       051344       H086.5       0503       0649       8927A         6925       0503       0541       8927A       B       070100       W113.3       0828       1013       8928A         6926       0649       0728       8927A       A       1018       1158       8928A         8927       0817       0826       8927A       A       084817       W140.2       1202       1344       8930A         8927       0829       0915       8928A       B       103533       W167.0       1533       1714       8932A         8928       1018       1103       8929A       B       1719       1853       8933A         8929       1202       1250       8930A       B       122250       E166.2       1858       2043       8934A		NIGHTTIM	E THIR			DESC.	NUDE		NEM	s - sc	R - ITF	R
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6925       0442       0453       8925R       B       051344       W086.5       0503       0649       8927A         8925       0503       0541       8927A       B       0649       0649       0828       8927A         8926       0649       0728       8927A       A       103       103       1158       8928A         8927       0817       0826       8927A       A       084817       W140.2       1202       1344       8930A         8927       0829       0915       8928A       B       103533       W167.0       1533       1714       8932A         8928       1016       1103       8929A       B       1719       1853       8933A         8929       1202       1250       8930A       B       122250       £166.2       1858       2043       8934A	*6923	<b>0</b> 108 <b>0</b> 206	8925R	A					ひひつち	0256	8925R	A
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8926     0629     0647     8927A     B     070100     W113.3     0828     1013     8928A       8926     0649     0728     8927A     A     1018     1158     8929A       8927     0817     0826     8927A     A     084817     W140.2     1202     1344     8930A       8927     0829     0915     8928A     B     1350     1528     6931A       8928     1004     1011     8928A     B     103533     W167.0     1533     1714     8932A       8928     1018     1103     8929A     B     1719     1853     8933A       8929     1202     1250     8930A     B     122250     E166.2     1858     2043     8934A	8925	0442 0453	8925R	8		051344	W086.5		0503	0649	8927A	8
8926       0649       0728       8927A       A       1018       1158       8929A         8927       0817       0826       8927A       A       084817       W140.2       1202       1344       8930A         6927       0829       0915       8928A       B       1350       1528       6931A         6928       1004       1011       8928A       B       103533       W167.0       1533       1714       8932A         8928       1018       1103       8929A       B       1719       1853       8933A         8929       1202       1250       8930A       B       122250       E166.2       1858       2043       8934A	8925	0503 0541	89274	₽					0649	0828	8927A	A
8927     0817     0826     8927A     A     084817     W140.2     1202     1344     8930A       8927     0829     0915     8928A     B     1350     1528     6931A       8928     1004     1011     8928A     B     103533     W167.0     1533     1714     8932A       8928     1018     1103     8929A     B     1719     1853     8933A       8929     1202     1250     8930A     B     122250     E166.2     1858     2043     8934A	8926	0629 0647	8927A	В		070100	W113.3		0828	1013	8928A	8
8927     0829     0915     8928A     B     1350     1528     8931A       8928     1004     1011     8928A     B     103533     W167.0     1533     1714     8932A       8928     1018     1103     8929A     B     1719     1853     8933A       8929     1202     1250     8930A     B     122250     E166.2     1858     2043     8934A	8926	0649 0728	8927A	A					1018	1158	8929A	В
8928     1004     1011     8928A     8928A     8928A     8928A     8929A     8929A     8929A     8929A     8929A     8930A     8930A <td< td=""><td>8927</td><td>0817 0826</td><td>89274</td><td>A</td><td></td><td>084817</td><td>W140.2</td><td></td><td>1202</td><td>1344</td><td>8930A</td><td>В</td></td<>	8927	0817 0826	89274	A		084817	W140.2		1202	1344	8930A	В
8928 1018 1103 8929A B 1/19 1853 8933A 8929 1202 1250 8930A B 122250 E166-2 1858 2043 8934A	8927	0829 0915	8928A	В					1350	1528	8931A	В
8929 1202 1250 8930A B 122250 E166.2 1858 2043 8934A	18928	1004 1011	8925A	В		103533	H167.0		1533	1714	8932A	В
	8928	1018 1103	8929A	B					1/19	1853	8933A	8
8930 1350 1457 8931A B 141006 E159.4 2047 2229 8935A	8929	1202 1250	8930A	8		122250	E166.2		1858	2043	8934A	8
	8930	1350 1437	8931A	В		141006	E139.4		2047	2229	8935A	В
8931 1533 1624 8932A B 155722 E112.6			_									
8932 1719 1812 8933A B 174439 E085.8			_			174439	E085.8					
8933 1900 1959 8934A B 193155 E058.9												
8934 2047 2146 8935A B 211912 E032-1						_						
8935 2253 2333 8938R A 230628 E005.3												
6.7 DATA CHANGES						<del>-</del>						
8923 0144 0206 8925R A				A								
8928 ND DATA												

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 8 OCTOBER 1974

FHIR								Ε	SHR		
	44 5 . 4 5	INT	H	THIR	ASC.					INT	
DATA	11.5 + 6.7			GRID	DESC.	NUDE				ORBIT	Ð
ORBIT	ON OFF	•	R	COHS	TIME	LUNG	DATA	ON	0FF	+	R
UKBII	HRMN HRMN	STON	S	LALD	HRMNSS	DEG	ORBIT	HRMN		STON	s
	DAYFIME	THIR			ASC.	NODE					
8936	2333 0022	8938R	A		000004	54.4					
8937			-			E1/1.9	8936	22>7		8938R	A
8938	0308 0356	8938R	Ð			E145.0	8938	0214		8938R	в
8939	0455 0544	8940A	В		053446	E118.2	8939	0419	0605	8940A	В
8940	0642 0/31	8941A	Ā		072203	E091.4	8940	0604	0744	8941A	A
8941	0830 0918	8941A	B			E064.6	8941	0/45	0925	8941A	9
8942	1017 1106	8942A	8			EU37.8	8942	0930	1111	8942A	В
8943	1204 1253	8943A				EU10.9	8943	1117	1301	8943A	В
8944	1352 1440	89444	8			W015.9	8944	1306	1445	8944A	В
8945	1539 1627		8		141825		8945	1450		8945A	В
8946	1726 1808	8945A	8		160541		8946	1635		8946A	B
8947	1913 1955	8945A	8		175258		8947	1819		8947A	8
8948	2101 2145	8947A	8		194014		8948	2002 2		8948A	8
8949	2248 2328	8948A	В		212751		8949	2171 2		8949A	В
8949	2330 2336	8949A	8		231447	W1/6.8				0,474	•
0,4,	2330 2335	8952R	A								
	NIGHTTIM	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R
8936	0022 00>0	8938R	A		005345	W021.5		2050			
8937	0214 0308	8935R	8		024101			2252 0		8938H	A
8938	0356 0412	8938R	В		042817			0214 0		8938R	В
8938	0419 0455	8940A	B		,	-0//2		0419 0		8948A	8
8939	0544 0601	8940A	В		061534	H = B = D		0604 0		8941A	A
8939	0604 0642	5941A	A		001204	~ I U Z • U		0745 0	-	8941A	8
8940	0731 0/43	8941A	Ä		080350	H		0930 1		8942A	8
8940	9748 0830	8941A	8		080250	#120.0		1117 1		8943A	8
8941	0930 1017	8942A	9		005007			1506 1	445	8944A	9
8942	1117 1204	8943A	8		095007			1450 1	629	8945A	8
8943	1253 1259	8943A			113/23			1635 1	813	8946A	15
8943	1306 1352	8944A	8		132439	E150.7	•	1819 1	957	8947A	3
8944	1450 1539	8945A	8			_		2002 2	147	89484	-8
8945	1634 1/26		B		151156			2152 2		8949A	8
8946	1819 1913	8946A	8		165912				-		•
8947	2002 2101	8947A	В		184629						
8948		8948A	8		203345						
8949	2152 2248	89494	В		222102						
~ 7 - 4	2336 0035	89528	A		000818	H010.8					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 9 OCTOBER 1974

	THIR							Ε	SMR		
		INT	H	THIR	ASC.					INT	4
	11.5 + 6.7	ORBIT	D	GRID	DESC.					ORBIT	0
DATA	ON OFF	+	R	CORS	TIME	LUNG	DATA	UN	OFF	•	ĸ
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	υEG	ORBIT	HRMN	HRMN	STON	S
	DAYTIME	THIR			ASC.	NODE					
8950	0035 0124	8952R	A		010203	E156.4	8950	2330	0127	8952H	A
8951	0222 0311	8951R	В		024928	E129.6	8951	0128	0326	8951R	8
8952	0410 0458	8952R	В		043636	E102.8	8952	0336	0515	8952K	8
8953	055? 0645	8954A	8		062353	£075.9	8953	0520	0705	8954A	9
8954	0744 0833	8954A	A		081109	E049.1	8954	0705	0845	8954A	Ā
8955	0931 1020	8955A	В		095825	E022.3	8955	0845	1031	8955A	8
8956	1119 1207	8955A	В		114542	W004.5	8956	1037	1213	8956A	В
8957	1306 1355	8957A	8		133258	W031.3	8957	1219	1401	8957A	8
8958	1453 1542	89584	В		152015	W058.1	8958	1407	1545	8958A	8
8959	1641 1/26	8959A	8		170/31	W085.0	8959	1550	1725	8959A	В
8960	1828 1907	8960A	В		185447	W111.8	8960	1755	1909	8960A	8
8961		89614	В		204204	W138.6	5961	1914	2059	8961A	В
8962	2202 2244	8962A	В		555350	W165.4	8962	2104	2246	8962A	8
	NIGHITIM	E THIR			DESC.	NUDE		NEMS	s <b>-</b> sc	R - ITP	Ŕ
8950	0129 0222	89518	В			W037.0			0128	8952K	A
8951		8951R	8		034251	H063.8			0327	89514	В
8951	0336 0410	8952R	В						0515	8952R	9
8952		8952R	В		053007	W090.6			0704	8954A	В
8952		8954A	В						0845	8954A	A
8953		8954A	В		8/1/24	W117.5			1032	8955A	В
8953	0705 0/44	8954A	A						1214	8956A	8
8954	0833 0843	8954A	A		090448	W144.3			1402	8957A	8
8954	0845 0931	8955A	В						1544	8958A	8
8955	1020 1026	8955A	В		105156	W171.1		_	1728	8959A	В
8955		8956A	8						1909	8960A	В
8956	1219 1306	8957A	В			E162.1	•		2059	8961A	В
8957		8958A	B			£135.3		2104	2246	8962A	B
8958	1550 1641	8959A	B			E108.5					
8959	1733 1828	8960A	В			E081.7					
8960	1916 2015	8961A	В		-	E054.9					
8961		8962A	8			E028.0					
8962					232251	E001.2					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 10 OCTOBER 1974

	1	FHIR									
									ESMR		
	44 5 .	INT	Н	THIR	ASC.	עאא					
DATA	11.5 + 6		_	GRID	DESC.	NODE				INT	. 4
ORBIT		• •	R	CORR	TIME	LUNG	DATA	0 N	0F <b>F</b>	ORBIT	
OKOII	HRMN H	RMN STON	S	LALD	HRMNSS	NFC	ORBIT		HRMN	+ Stdn	R S
									7174	3104	3
	DAYI	INE THIR			ASC.	NUDE					
8963	0030 00	38 8965R	A			_					
8964	0137 02				001637		8964	0030	0228	8965H	A
8965	0324 04				020353	E140.9	8965		0427	8965R	
8966	0511 06		В		035110		8966		0620	8967A	_
8967	0659 07		Ā		053826	E087.3	8967		0801	8965A	Ā
8968	0846 09		B		072542	E060.8	8968		0941	8968A	9
8969	1033 11		8		091259		8969		1127	8969A	
8970	1220 13		8		110015	E006.8	8970	1151		8970A	В
8971	1408 14		-		124/32		8971	1320		8971A	В
8972	1555 16		В		143448		8972	1505	1645	8972A	8
8973	1742 18		В		162204		8973	1650		8973A	H
8974	1930 20		8		180921		8974	1831		89744	
8975	2117 21		8		195637	W127.2	8975	2015		8975A	8
8976	2304 23		8		214354	W154.1	8976	2205		8976A	8
8976	2348 23		B A		233110	E1/9.1			2040	077 GA	8
	NICHI	TIME THIR									
					DESC.	NODE		NEMS	- sc	R - ITE	'R
8953	0038 013		A		011008	HU25.6		0040			
8964 8965	0226 032	_	8		025724	1052.4		0030		8965R	A
	0413 042		B		044441	10/9.2		0228		8965K	В
8965	0436 051		В		-			0436		8967A	8
8966	0600 061	8 8967A	В		063157	1106.1		0620		8968A	A
8966	0618 065	9 8968A	A					0880		8968A	3
8967	0747 0/5		A		081914 H	11.12.9		0946		8969A	8
8967	9800 084		В			.102.		1132		8970A	В
8968	0946 103		8		100630 H	1150.7		1320		8971A	8
8969	1132 122	0 8970A	8		115346 E			1505		8972A	8
8970	1320 140	8 8971A	8		134103 E			1651		8973A	В
8971	1505 155	5 8972A	8		152819 E	110 8		1831 2		8974A	В
8972	1651 1/4		В		171536 E	11700		2015 2		8975A	В
8973	1831 193		В		190252 E	U73.U		2205 2	2348	8976A	8
8974	2018 211	7 8975A	В		1,0676 F	000.2					-
8975	2205 230	4 8976A	В		205008 E	U39.4					
8976	2353 005	1 8981A	Ā		223725 E	U12.6					
			~		002441 H	014.3					

# TABLE 2.2 DATA AVAILABILITY ON-OFF TIMES 11 OCTOBER 1974

INT		HHIR							ESMR		
11.5 + 6.7   ORBIT   D   GRID   DESC. NUDE   ORBIT   D   ORBIT			INT		Tuta	180	NI			INT	
DATA   ON OFF   +   R   CORR   TIME   LUNG   ORBIT   HANN   HANN   STON   S   LALD   HANNS   DEG   ORBIT   HANN   HANN   STON   S   LALD   HANNS   DEG   ORBIT   HANN   HANN   STON   S   STON   S   CALD   HANNS   DEG   ORBIT   HANN   HANN   STON   S   STON   S   CALD   HANNS   DEG   ORBIT   HANN   HANN   HANN   STON   S   STON   S   STON   S   CALD   HANNS   DEG   ORBIT   HANN   HANN   HANN   STON   S   STON   S   CALD   HANNS   DEG   ORBIT   HANN   HANN   HANN   STON   S   STON   S   CALD   THE		44 5 4 6 7									
DAYFIHE THIR	5 . T .							DATA	ON OFF	_	
DAYIIME THIR  ASC. NOUE  8977 0051 0140 8981A A 011826 E152.3 8977 2348 0146 8981A A 8978 0239 0327 8978R 8 030543 E125.5 8978 0147 0346 8978R 8 8979 0426 0514 8980A 8 045259 EUV8.7 8979 0353 0555 8980A 8 8981 04016 EU71.8 8981 0717 0856 8981A 8 082732 E045.0 8982 0948 1036 8982A 8 101448 E018.2 8983 1048 1233 8983A 8 120205 MU08.6 8983 1135 1223 8983A 8 120205 MU08.6 8985 1419 1600 8985A 8 8985 1509 1558 8985A 8 153638 M062.3 8985 1419 1600 8985A 8 8985 1657 1744 8986A 8 17235 44089.1 8985 1509 1558 8987A 8 19111 1415.9 8986 1657 1744 8986A 8 17235 44089.1 8985 1509 1508 8987A 8 19111 1415.9 8988 1715 2112 8988A 8 205627 M142.7 8989 2119 2301 8989A 8 8989 2218 2300 8989A 8 224543 M169.5  NIGHTTIME THIR  DESC. NUDE  NEMS - SCR - ITPR  8977 0147 0239 8978R 8 035914 H069.9 0147 0346 8978R		•		-							
8977 0051 0140 8981A A 011826 E152.3 8977 2548 0146 8981A A 8978 0239 0327 8978R B 030543 E125.5 8978 0147 0346 8978R B 8979 0426 0514 8980A B 045259 EUV8.7 8979 0353 0555 8980A B 8981 0800 0849 8981A B 082732 E045.0 8981 0717 0856 8981A B 8982 0948 1036 8982A B 101448 E018.2 8983 1048 1233 8983A B 101448 E018.2 8983 1048 1233 8983A B 101448 E018.2 8983 1048 1233 8983A B 1355 1223 8983A B 155658 W062.3 8985 1419 1600 8985A B 8985 1509 1558 8986A B 172354 W088.6 8986 1657 1744 8986A B 172354 W089.1 8985 1419 1600 8985A B 8986 1657 1744 8986A B 172354 W089.1 8987 1644 1723 8988A B 191111 W115.9 8988 1750 1925 8987A B 8988 2031 2112 8988A B 205627 W142.7 8988 2031 2112 8988A B 224543 W169.5 8989 2218 2300 8989A B 224543 W169.5 8989 2119 2301 8988A B 8989 2218 2300 8989A B 224543 W169.5 8989 2119 2301 8988A B 8989 0717 0800 8988A B 0754631 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 8989 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 0353 0717 0800 8981A B 0754531 W09.9 0147 0346 8981A B 0754531 W09.9 0147 0346 8978R B 0353 0717 0800 8981A B 0754531 W09.9 0147 0346 8978R B 0353 0717 0800 8981A B 0754531 W09.9 0147 0346 8984A B 0754531 W09.9 0147 0346 8983 0123 0144 0348A B 0754531 W	OKBII	HANN HANN	3104	3	LALJ	IIIIIII	bed	OND!!	71,717		Ū
8978 0239 0327 8978R B 030543 E125.5 8978 0147 0346 8978R B 8979 0426 0514 8980A B 045259 EU98.7 8979 0353 0555 8980A B 8980 064016 EU71.8 8981 0717 0856 8981A B 062732 E045.0 5982 0948 1036 8982A B 101448 E018.2 8983 1048 1233 8983A B 101448 E018.2 8983 1048 1238 1415 8984A B 134921 H035.4 8985 1419 1600 8985A B 153638 H062.3 8985 1419 1600 8985A B 153638 H062.3 8986 1605 1745 8986A B 172354 H089.1 8985 1419 1600 8987A B 8986 1657 1744 8986A B 172354 H089.1 8987 1700 1925 8987A B 8988 2031 2112 8988A B 205827 W142.7 8989 2119 2301 8989A B 8989 2218 2300 8989A B 224543 W169.5 8989 2119 2301 8989A B 8989 2218 2300 8989A B 224543 W169.5 8989 2119 2301 8989A B 8978 0353 0426 8980A B 035914 W069.9 0147 0346 8978R B 8979 0514 0553 8980A B 075347 W121.5 0991 1043 8982A B 8981 040 0717 0800 8981A B 073347 W121.5 0991 1043 8982A B 8981 0900 0948 8982A B 073347 W121.5 0991 1043 8982A B 8981 0900 0948 8982A B 073347 W121.5 0991 1043 8982A B 8981 0900 0948 8982A B 110820 W175.2 1419 1559 8983A B 1238 1322 8988A B 125536 E158.0 1751 1925 8987A B 8983 1223 1231 8983A B 125536 E158.0 1751 1925 8987A B 1930 2114 8988A B 1930 2114 8988A B 125536 E158.0 1751 1925 8987A B 1930 2114 8988A B 1933 1238 1322 8988A B 125536 E158.0 1751 1925 8987A B 1933 2114 8988A B 1933 1238 1322 8988A B 125536 E158.0 1751 1925 8987A B 1933 2114 8988A B 1933 1238 1322 8988A B 144253 E131.2 2119 2302 8989A B 1935 2119 2302		DAYTIME	THIR			ASC.	NODE				
8979 0426 0514 8980A B 045259 EUV8.7 8979 0353 0555 8980A B 8980 0800 0849 8981A B 082732 E045.0 8981 0717 0856 8981A B 8982 0948 1036 8982A B 101448 E018.2 8983 1048 1233 8983A B 8983 1135 1223 8983A B 120205 MUU8.6 8984 1238 1415 8984A B 134921 MU8.5 4 8985 1419 1600 8985A B 8985 1509 1558 8985A B 153638 MO62.3 8986 1657 1744 8986A B 172354 MU8.9 1 8985 1419 1600 8985A B 8986 1657 1744 8986A B 172354 MU8.9 1 8987 1750 1925 8987A B 8987 1844 1923 8987A B 191111 M115.9 8988 1940 2114 8988A B 8988 2031 2112 8988A B 205827 M142.7 8989 2119 2301 8989A B 8989 2218 2300 8989A B 224543 M169.5 8989 2119 2301 8989A B 8978 0353 0426 8980A B 035914 M069.9 0147 0346 8978 B 8978 0353 0426 8980A B 054631 M094.7 0717 0856 8981A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0849 0854 8981A B 075347 M121.5 0901 1043 8982A B 8981 0800 0717 0800 8981A B 075347 M121.5 0901 1043 8982A B 8981 0800 0748 8982A B 11082D M175.2 1449 1559 8985A B 1236 1414 8988A B 125536 E158.0 1751 1925 8987A B 1938 1238 1232 8988A B 125536 E158.0 1751 1925 8987A B 1938 114253 E131.2 2302 8989A B 144253 E131.2 2302 8989A B	8977	0051 0140	8981A	A		011826	E152.3	8977	2548 014	6981A	A
8980 8981 0800 0849 8981A B 8982 0948 1036 8982A B 101448 E018.2 8983 1048 1233 8983A B 8984 1322 1411 8984A B 8985 1509 1508 8985A B 8985 1509 1508 8985A B 8986 1657 1744 8986A B 8986 2031 2112 8988A B 8987 1844 1423 8987A B 8988 2031 2112 8988A B 8989 2218 2300 8989A B 8989 2218 2300 8989A B 8989 0777 0800 8981A B 8980 0717 0800 8981A B 8981 0735 4212 8988A B 8982 1048 1155 8983A B 8983 1223 1231 8983A B 8984 1040 1155 8983A B 8985 1040 1044 8986A B 8986 1057 1744 8986A B 8987 1844 1423 8987A B 8989 2119 2301 8989A B 8989 2218 2300 8989A B 8989 2218 2300 8989A B 8989 2218 2300 8989A B 8989 0757 0800 8981A B 8980 0717 0800 8981A B 8981 075347 W121.5 8981 0900 0948 8982A B 8982 1048 1155 8983A B 8983 1223 1231 8983A B 8984 1449 1509 8985A B 8983 1223 1231 8983A B 8983 1238 1232 8984A B	8978	0239 0327	8978R	В		030543	E125.5	8978	0147 034	5 8978K	В
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NIGHTTIME THIR DESC. NUDE NEMS - SCR - ITPR  8977 0147 0239 8978R B 021158 H041.1 2348 0147 8981A A 8978 0327 0345 8978R B 035914 H069.9 0147 0346 8978R B 8979 0514 0553 8980A B 054631 H094.7 0717 0856 8981A B 8980 0717 0800 8981A B 073347 H121.5 0901 1043 8982A B 8981 0849 0854 8981A B 092103 H148.3 1048 1233 8983A B 8981 0900 0948 8982A B 8982 1036 1042 8982A B 8982 1048 1135 8983A B 8983 1223 1231 8983A B 8983 1223 1231 8983A B 8983 1223 1231 8983A B 8984 1419 1509 8985A B 8984 1419 1509 8985A B	8988	2031 2112		В				8989	2119 230	1 8989A	В
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8979       0514       0553       8980 A       B       054631       H094.7       0717       0856       8981A       B         8980       0717       0800       8981A       B       075347       H121.5       0901       1043       8982A       B         8981       0849       0854       8981A       B       092103       H148.3       1048       1233       8983A       B         8981       0900       0948       8982A       B       1236       1414       8984A       B         8982       1036       1042       8982A       B       110820       H175.2       1419       1559       8985A       B         8983       1223       1231       8983A       B       125536       E158.0       1751       1925       8987A       B         8984       1419       1509       8985A       B       144253       E151.2       2119       2302       8989A       B		0353 0426	8980A	8		_			0353 055	5 8980A	8
8980     0717     0800     8981A     B     075347     H121.5     0901     1043     8982A     B       8981     0849     0854     8981A     B     092103     H148.3     1048     1233     8983A     B       8981     0900     0948     8982A     B     1236     1414     8984A     B       8982     1036     1042     8982A     B     110820     H175.2     1419     1559     8985A     B       8983     1223     1231     8983A     B     125536     E158.0     1751     1925     8987A     B       8984     1419     1509     8985A     B     144253     E131.2     2119     2302     8989A     B		0514 0553	8980A	В		054631	W094.7		0717 085	6 8981A	В
8981       0849       0854       8981A       B       092103       W148.3       1048       1233       8983A       B         8981       0900       0948       8982A       B       1238       1414       8984A       B         8982       1036       1042       8982A       B       110820       W175.2       1419       1559       8985A       B         8983       1233       1231       8983A       B       125536       E158.0       1751       1925       8987A       B         8983       1238       1322       8984A       B       144253       E131.2       2119       2302       8989A       B		-	8981A	8		075547	W121.5		0901 104	3 8982A	8
8981       0900       0948       8982A       B       1238       1414       8984A       B         8982       1036       1042       8982A       B       110820       H175.2       1419       1559       8985A       B         8982       1048       1135       8983A       B       1604       1746       8986A       B         8983       1233       1231       8983A       B       125536       E158.0       1751       1925       8987A       B         8983       1238       1322       8984A       B       1930       2114       8988A       B         8984       1419       1509       8985A       B       144253       E131.2       2119       2302       8989A       B		_	8981A	В		092103	W148.3		1048 123	3 8983A	В
8982     1036     1042     8982A     B     110820     W175.2     1419     1559     8985A     B       8982     1048     1135     8983A     B     1604     1746     8986A     B       8983     1233     1231     8983A     B     125536     E158.0     1751     1925     8987A     B       8983     1238     1322     8984A     B     144253     E131.2     2114     2302     8989A     B	. –		8982A	В					1238 141	4 8984A	8
8982     1048     1135     8983A     B       8983     1223     1231     8983A     B     125536     E158.0     1751     1925     8987A     B       8983     1238     1322     8984A     B     1930     2114     8988A     B       8984     1419     1509     8985A     B     144253     E131.2     2119     2302     8989A     B	-		8982A	В		110820	W175.2		1419 155	9 8985A	8
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						144253	E131.2		2119 230	2 8989A	8
AAAN IGII IGN, AAAGN G IOOGO LEIVINI	8985		8986A	В		163009	E104.4				
8986 1750 1844 8987A B 181/25 E0/7.6			8987A	В		181/25	E0/7.6				
8987 1932 2031 8988A B 200442 E050.7			8988A	В		200442	E050.7				
8988 2120 2218 8989A B 215158 EU23.9	8988	2120 2218	89894	8		215158	E023.9				
8989 233915 WOU2.9	8989					233915	H002.9				

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 12 OCTOBER 1974

	fHI	R							ESMR		
	•••••	INT		T							
	11.5 + 6.7		H	THIR	ASC.					INT	н
DATA	ON OFF	+	D R	GRID		NODE				ORBIT	ם ס
ORBIT			S	CORR	TIME	LUNG	DATA	UN	OFF	+	R
		,	5	LALD	HRMNSS	DFC	ORBIT	HRMN	HRMN	STDN	S
	DAYTIM	E THIR			ASC.	NODE					
8998	0045 0054	8992R	A								
8991			Â		003300	E163.7	8991	0045	0244	8992R	A
8992			B		022016	E136.8	8992	0244	0443	8992R	В
8993		8994A	В		055440	E110.0	8993	0450	0635	8994A	В
*8994		8994A	Ā		074005	E083.2	8994	0636	0816	89944	Ā
8995		8995A	B		0/4205	E056.4	8995	0817	1001	8995A	В
8996		8996A	8		111172	E029.6	8996	1006	1141	8996A	8
8997		8997A	8		111035	E002.7	8997	1147		8997A	8
8998		8998A	8		130355	W024.1	8998	1337	1515	8998A	8
8999		8999A	В		149111	H050.9	8999	1522	1659	8999A	8
9000	1758 1840	9000A	8		16382/	H077.7	9000	1/05	1842	9000A	В
9081	1946 2027	9001A	8		102544	H104.5	9001	1847	2029	9001A	8
9002	2133 2217	9002A	8		201300	H131.4	9002	2054		9002A	8
9003	0002 0009	9005R	Ä		22001/	H158.2			_		-
*NO 6	.7 DATA	, 00 J.	^		234/33	E1/5.0					
	NIGHITIM	E THIR			DESC.	NODE		NEHS	- sc	R - JIP	R
8990	0054 0153	8992R	A		012651	H029.7					
8991	0244 0340	8992R	В			HU56.5		0046		8992H	A
8992	0429 0441	8992R	В		050104	HDB3 4		0244	_	89928	Β
8992	0450 0528	8994A	8		020104	WU03.4		0450		8994A	В
8993	0616 0634	8994A	В		064820	U 0 0		0636		8994A	A
•8993	0636 0715	8994A	Ā		004020	-110.5		0817		8995A	В
•8994	0803 0814	8994A	Ä		0A 15 17	U417 A		1006		8996A	9
8994	0817 0902	8995A	В		083537	W13/.U		1147	1532	8997A	В
8995	0951 1000	8995A	8		102253	U447 0		1337		8998A	В
8995	1006 1049	8996A	В		102253	4102.0		1522		8999A	3
8996	1147 1237	8997A	В			5		1/05	1842	9000A	В
8997	1337 1424	8998A	8		121010			1847		9001A	8
8998	1521 1611	8999A	8		135726			2034	2219	9002A	8
8999	1704 1/58	9000A	8		154442	E115./					-
9080	1847 1946	9001A	8		173159	EU88.9					
9001	2034 2133	9002A	В		191915						
9002		- 0 0 2 7	ō		210632						
9083	0009 0107	9005R			225348						
.6 CM	7 DATA	, v u j n	A		004105	WU18.4					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 13 OCTOBER 1974

	THIR							6	SHR		
	_	INT	H	THIR	ASC.					TNT	1
	11.5 + 6.7	ORBIT	D	GRID	DESC.		D. T.	(14)	UFF	+	0
DATA	ON OFF	*	R	CORR	TIME	LUNG	DATA	ON		STDN	ત S
ORBIT	HRMN HRMN	STDN	S	LALD	HRMNSS	DEG	OKBIT	HRMN	пкач	2104	3
		7				N4125					
	DAYTIME	IHIK			ASU.	NUDE					
9004	0107 0156	9005R	A		013449	E148.2	9004	0002	0200	4005K	A
9005	0255 0343	9005R	8		032205	E121.4	9005	0200	0359	9005R	8
9006	0442 0>31	9007A	В		050922	E044.6	9006		0551	9007A	В
9007	0629 0/18	9008A	A		065638	E067.7	9007		0734	9008A	A
9008	0817 0905	9008A	В		084354	EU40.9	9008		0912	9008A	В
9009	1004 1052	9009A	8		103111	E014.1	9009	_	1105	9009A	В
9010	1151 1240	9010A	В		121827	WU12.7	9018		1247	9010A	В
9011	1338 1427	90114	В		140544	HU39.5	9011	1252	1432	9011A	В
9012	1526 1612	90124	В		155300	HU66.4	9012	1457	1614	9012A	В
9013	1713 1/57	9013A	8		174016	W843.2	9013	-	1801	9013A	В
9014	1900 1937	90144	B		192753	W120.0	9014		1945	9014A	В
9015	2047 2127	9015A	8		211449	W146.8	9015	-	2129	9015A	8
*4016	2235 2318	9016A	8		230206	W1/3.6	9016	2134	2319	9016A	В
*DIFFE	RENT 6.7 TI	ME									
9016	2235 2315	9016A	В								
	NIGHTTIM	E THIR			DESC.	NODE			<b>s -</b> sc	R - ITP	R
		00050			022520	W045.2			0200	9005R	A
9004	0200 0255	9005R	8			H0/2.0			0359	9005R	В
9005	0343 0356	9005R 9007A	В		841237	40/200			0552	9007A	В
9005	0408 0442	9007A	8		060253	W898.8			0734	9008A	Ā
9.006	0531 0549	9008A	A		000230			_	0913	9008A	8
9006	0552 0629 0718 0/30	9008A	Â		075009	H125.6			1104	9009A	В
9007 9007	0733 0817	9008A	В		0.,00,			1110	1248	9010A	В
9008	0905 0911	9008A	B		093726	W152.4		1252	1432	9011A	8
9008	0918 1004	90094	В					1457	1615	9012A	В
9009	1052 1103	9009A	8		112442	H179.5		_	1891	9013A	8
9009	1110 1151	9010A	8		110				1945	9014A	8
9010	1240 1246	9010A	В		131159	E153.9		_	2129	9015A	8
9010	1253 1338	90114	8		1011,				2319	9016A	В
9010	1437 1526	9012A	В		145915	E127.1					_
9012	1620 1/13	9013A	В		_	E100.3					
9012		9014A	В			E0/3.5					
9013	1949 2047	9015A	В			E046.6					
9015		9016A	В			E019.8				•	
9015	£170 £533	, 0 T O W	3			7 4007.0					
7010					207701						

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 14 OCTOBER 1974

	THIR	!		ć				E	SMR		
		INT	·	THE							
	11.5 + 6.7	ORBIT	н	FIHT	ASC.					INT	н
DATA	ON OFF	+	0	GRID		NUDE				ORBIT	D
ORBIT		STDN	R S	CORR	TIME	LUNG	DATA	ÜN	OFF	•	R
ORDIT	MAIN HAIN	3104	3	LVED	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME	THIR			ASC.	NUDE					
9017					004922	£159.6	9019	0247	0446	20200	
9018	0248 0258	9020R	A			E132.8	9020		0645	9020R 9020R	A
9019	0356 0443	9020R	A			E105.9	9021	0653		9021A	8
9020	0544 0632	9020R	В			EU/9.1	9022	0833		9022A	8
9021	0731 0819	9021A	В			E052.3	9023	1018		9023A	9
9022	0918 1007	9022A	9			E025.5	9024		1349		B B
9023	1106 1154	9023A	В			H001.4	9025		1532	9025A	8
9024		9024A	8			H028.2	9026		1717		8
9025		9025A	В			W055.0	9027	1724		9027A	В
9026	1627 1/16	9026A	В			WU81.8	9028	1910	_	9028A	В
9027	1815 1901	9027A	8			W108.6	9029	2052		9029A	8
9028	2002 2045	9028A	8			W135.5				, , , ,	
9029	2149 2233	9029A	В			W162.3					
	NIGHETIM	E THIR			DESC.	NOUE		NEMS	- sc	R - [TP	R
9017					014254	WU35.8		0247	0446	9020R	A
9018		9020R	A			W060.6		0446	0645	9020R	В
9019		9020R	В			W087.5		0653	0829	9021A	8
9020	0632 0642	9020R	В		070443	W114.3		0833	1006	9022A	8
9020	0653 0/31	9021A	В					1019	1201	9023A	В
9021	0819 0825	9021A	В		085159	W141.1		1206	1350	9024A	В
9021	0833 0918	9022A	В					13ララ	1532	9025A	В
9022	1007 1012	9022A	В		103916	W167.9		1537	1/19	9026A	В
9022 9023	1019 1106	9023A	8					1724	1903	9027A	8
9023	1206 1253	9824A	В			E165.3		1910	2044	9028A	В
9024	1341 1348	9024A	В		141348	E138.5		2051	2235	9029A	8
9025	1355 1440	9025A	В		_						
*9025	1537 1627	9026A	ಕ			E111.6					
9027	1724 1815	9027A	В			E084.8					
9028	1910 2002 2052 2149	9028A	В			E058.0					
9029	CA15 5144	9029A	В		_	EU31.2					
	HENT 6.7 TI	MCS			231011	E004.4					
9026	1741 1815		R								

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 15 OCTOBER 1974

	THIR							6	SMR		
		INT	н	THIR	ASC.					INT	Н
	11.5 + 6.7	ORBIT	9	CRID	DESC.					OKBII	D
DATA	ON OFF	÷	R	COKS	TIME	LONG	DATA	UN	OFF	+	₹ -
URBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	υEG	ORBIT	нким	HRMN	STDN	S
	DAYTIME	ТНІЯ			ASC.	NUDE					
9030					000355	E170.9	9032	0202	0402	9033R	A
9031						E144.1	9033	_	0600	9033R	В
•9032	0311 0359	9033R	A			E117.5	9034		0/44	9034A	В
9033	0458 0547	4033R	В		-	EU90.5	9035		0930	9035A	8
9834	0645 0/34	9034A	В			E063.6	9036		1116	9036A	8
9035	0833 0421	9035A	В		_	EU36.8	9037		1305	9037A	В
9036	1020 1108	9036A	8		_	E010.0	9038		1447	9038A	8
9037	1207 1256	9037A	8		-	WU16.8	9039	-	1633	9039A	8
9038	1355 1443	9038A	В		-	W043.6	9040	_	1615	9048A	9
9039	1542 1630	9039A	8			H0/0.5	9041	-	2001	9041A	В
9040	1729 1813	9040A	В			H097.3	9042		2147	9042A	8
9041	1916 1958	9041A	В			W124.1	9043	2152	2334	9043A	В
9042	2104 2143	9042A	8			W150.9					
9043	2251 2333	9043A	В		231829	W1/7.7					
-NU 0	.7 DATA										
	NIGHTTI	E THIR			DESC.	NODE				R - 116	
9030					005727	WU22.5			0401	9033R	A
9031						H049.3			0600	9033K	В
9032	0401 0458	9033R	В		_	H076.1		_	0745	9034A	8
9033	0547 0559	90338	9			W102.9			0930	9035A	8
9033	0608 0645	9034A	-8		001710	#10207			1115	9036A	В
9034	0734 0743	9034A	В		080633	W129.7			1306	9037A	В
9634	0749 0853	9035A	8		*******				1448	9038A	В
9035	0921 0928	9035A			095349	W156.6			1634	9039A	В
9035	0935 1020	9036A	В		0,304,	*17000			1815	9040A	8
9036	1108 1113	9036A	В		114105	£1/6.6			2001	9041A	8
9036	1121 1207	9037A	В		22 12 0				2148	9042A	В
9037		9037A	В		132822	E149.8			2335	9043A	В
9037		9038A	9								_
9038	1452 1542	9039A	В		151538	E123.0		-			
9039	_	9040A	_			E096.2					-
9040	1820 1916	9041A	8			E069.4					
9041	_	9042A	В			E042.5					
9042	_	9043A	8			E015.7					
9043		9048A	A		001200	W011.1					

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# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 16 OCTOBER 1974

	THIR								SMR		
		INT	н	THIR	ASC.	A NII)				INT	н
	11.5 + 6.7	ORBIT	D	GRID	DESC.					ORBIT	0
DATA	ON OFF	+	Ř	CORR	TIME	LUNG	DATA	ON	OFF	+	4
DRBIT	HRMN HRMN	STON	S	LALT	HRMNSS	DEG	OKBIT		HRMN	STON	ŝ
			_					,	*******	31011	3
	DAYTIME	THIR			ASC.	NODE					
9044	0038 0127	9048A	A		010545	E1>5.5	9044	2335	0029	9048A	A
9045	0225 0314	9045R	8		025301	£128.6	9045	0135	0333	9045R	8
9046					044018	E101.8	9047	0504	0.705	9047R	8
9047	0600 0648	9047R	В		062734	EU/5.0	9048	0/11	0843	9048A	В
9045	0747 0836	9048A	8		081451	EU48.2	9049	0848	1033	9049A	8
9049	0934 1023	9049A	8		100207	E021.4	9050	1058	1214	9050A	В
9050	1122 1210	9050A	В		114923	H005.5	9051	1221		9051A	В
9051	1309 1357	9051A	В		133640	W032.3	9052	1408	1548	9052A	8
9052	1456 1544	9052A	В		152356	H059.1	9053	1552	1732	7053A	8
9053	1643 1/29	9053A	8		171113	W085.9	9054	1737	1916	9054A	8
9054	1631 1913	9054A	8		185829	W112.7	9855	1920	2101	9055A	В
9055	2018 2059	9055A	8		204545	W139.6					
9056					223302	H166.4					
	NIGHTIM	E THIR			DESC.	NUDE		NEMS	- sc	4 - IIb	R
9044	0127 0132	9048A	A		015917	H037.9		2335	0133	9048A	A
9044	0134 0225	9045R	В					0134	_	9045R	B
9045	0314 0330	9045R	8		034633	HU64.7		0504		9047R	8
9046	0504 0600	9047R	В		053350	W091.6		0/11		9048A	B
9047	0648 0/02	9047R	8			W118.4		0848		9049A	8
9047	0711 0/47	9045A	8					1039		9050A	8
9048	0836 0841	9048A	В		090822	W145.2		1221		9051A	8
4048	0848 0454	9049A	8					1408	-	9052A	8
9049	1023 1032	9049A	В		105539	W1/2.0		1552	_	9053A	В
9049	1039 1122	9050A	8					1/37		9054A	В
4050	1221 1309	9051A	8		124255	£161.2		1921		9055A	8
9051	1408 1456	9052A	В			£134.3			-2-7	- U J J N	
9652	1552 1643	9053A	8			E107.5					
9053	1737 1831	9054A	В			E080.7					
9054	1921 2018	9055A	8			E053.9					
9155					213917						
9056	2319 2353	90598	A		232634						

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 17 OCTOBER 1974

	THIR							ε	SMR		
					. 0.0					INT	н
		INT	Н	THIR	ASC. A					ORBIT	D
_	11.5 + 6.7	ORBIT	D	GRID	DESC. Time	LUNG	DATA	ON	OFF	+	R
DATA	ON OFF	, <b>+</b>	R	CORR	_		OKBIT	HRMN		STDN	S
ORSIT	HRMN HKMN	STDN	S	LALJ	HRMNSS	DEG					
	DAYTIME	THIR			ASC.	NODE					
9057	2353 0041	9059R	A		002018	E166.8	9057	2318	0117	9059R	A
9057	5222 0041	70371			-	E140.0	9059	0233	0432	9059K	В
9059	0327 0416	9059R	В			E113.2	9060	0457	0620	9060R	В
9060	0514 0603	9060R	В			E086.4	9062	0804	0944	9062A	8
9051	4314 4444		•		072924	E059.6	9063	0951	1135	9063A	В
9062	0849 0937	9062A	В		091640	E032.7	9064	1142	1317	9064A	В
9063		9863A	В		_	E005.9	9065	1322	1502	9065A	В
9054		9064A	8			HU20.9	9066	1507	1648	9066A	В
9065		9065A	В			W047.7	9067		1829	9067A	8
9056		9066A	8		162546	WU74.6	9068	1853	2014	9068A	Β
9067	_	9067A	В			W101.4	9869	2020	2204	9069A	В
9058		9068A	8		200019	W128.2	9070	5518	2352	9070A	8
9069	-	9069A	8		214735	W155.0					
9070		9070A	В		233451	E1/8.2					
9070		9073R	A								
								ME' M	e - e	R - 116	
	NIGHTTI	4E THIR			DESC.	NUDE		200	<b></b>	,K - 111	
	0044 0445	00500			011150	H026.6		2319	0117	9059R	A
9057		9059R 9059R	B			H0>3.4			0432	9059R	Ð
9058		9859R	8			H080.2		0438	0621	9060R	8
.9059	_	9060R	8		044020			-	8944	9062A	В
9 G 5 9 9 G 5 G		9060R	8		063539	H107.0		09>1	1136	9063A	. 8
9060		9061A	В					1142	1318	9064A	В
9061		9062A	В		082256	H133.8		1523	1502	9065A	8
9862		9062A	В			W160.7		1507	1649	9066A	8
9062		9063A	В			_		1654	1829	9067A	8
9063		9063A	8		115729	£172.5		1834	2015	9068A	В
9063		9064A	В					2020	2204	9069A	В
9064		9065A	В		134449	5 E145.7		2209	2352	9070A	В
9865		-	8			E118.9					
9066		_	В			E092.1					
9067			8			4 E065.2					
9066	-		В			1 E038.4					
9069			В			7 E011.6					
907	· · - · - ·	9073R	Ā			3 HU15.2					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 18 OCTOBER 1974

	THI	₹					ESMR		
		INT	 Н	THIR	480 AND	*****			
	11.5 + 6.7	ORBIT	 D	GRIG	ASC. AND			INT	H
DATA	ON OFF	+	R	CORR	DESC. NUDE Time lung	D		ORBIT	D
TIERO	нами ними	STON	ŝ	LALD		- 4.4	UN OFF	•	R
		0.0.	J		HRMNSS DEG	ORBIT	HRMN HRMN	STDN	S
	DAYTIME	THIR			ASC. NODE				
9071	0054 0143	9073R	A		012208 E151.	4 9071	23>1 0149	9073R	A
9072	0242 0330	9072R	В		030924 E124.	5 9072	0149 0343	9072R	8
9073	0429 0517	9073R	В		045641 EU97.	7 9073	03>6 0532	9073K	8
*9074	0616 0/05	9074A	В		064357 E0/0.	9 9074	0538 0716	9074A	В
9075	_	9075A	В		083113 EU44.	1 9075	0/22 0901	9075A	В
9076	0951 1039	9076A	В		101830 EU17.	3 9076	0906 1043	9076A	В
9077		9077A	8		120546 WU09.	6 9077	1052 1232	9077A	8
9078	1325 1414	9078A	В		135303 W036.	4 9078	1257 1417	9078A	В
9079	1512 1600	90794	В		154019 WU63.	2 9079	1422 1602	9079A	8
9050	1700 1743	9080A	8		172735 W090.	0 9080	1607 1745	9080A	8
9081	1847 1926	9081A	8		191452 W116.	8 9081	1750 1928	9081A	8
9082	2034 2114	9082A	В		210208 W143.		1933 2116	9082A	9
9083	2221 2302	9083A	В		224925 W1/0.		2121 2307	9083A	8
-NU 6.	7 DATA							75004	U
	NIGHTTIM	E THIR			DESC. NODE		NEMS - SC	R - ITP	Ŕ
9071	0149 0242	4072R	В		034540 4040				
9072	0330 0346	9072R	8		021540 WU42.		2351 0149	9073K	A
9072	0356 0429	9073R	8		040256 HU68.	•	0149 0343	9072R	8
9073	0517 0531	9073R	8		0550.7 11005	_	0355 0533	9073R	В
*9073	0538 0616	9074A	В		055013 WU45.	/	0538 0716	9074A	В
9074	0705 0713	90744	8		071700 11-00	_	0/20 0900	9075A	8
9074	0720 0803	9075A			073729 W122.	•	0905 1044	9076A	8
9075	0852 0858	9075A	B		<b>800445</b> W	_	1052 1232	9077A	8
9075	0906 0951	9076A	_		092445 H149.	3	1237 1417	9078A	В
9076	1039 1045	9076A	8				1422 1602	9879A	В
	1052 1138	9077A	B		111202 W176.	l	1607 1745	9080A	В
9077	1237 1325	9078A	8				1/50 1928	7081A	8
9078	1421 1512		B		125918 E157.1		1433 2116	9082A	В
9079	1607 1/00	9079A	8		144635 E130.2		2120 2307	9083A	В
9080	1750 1847	9080A	В		163351 E103.4				
*9081	1935 2034	9081A	В		182108 E076.6				
9082		9082A	В		200824 E049.8				
9083	2123 2221	9083A	8		215540 E023.0				
	ES FOR 6.7	D . T .			234257 H003.9	)			
9672	L3 FUR 0.7	DAIA							
9073	NO 6.7 DATA								
9031	NO 6.7 DATA		_						
4021	2020 2034	9082A	В						

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 19 OCTOBER 1974

	7u10							Ε	SMR		
	THIR										
		INT	н	THIR	ASC. A	UND				INT	H
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D a
	ON OFF	+	R	CORR	TIME	LUNG	DATA	UN	OFF	4	S
DATA	HRMN HRMN	STDN	S	LALI	HRMNSS	DEG	ORBIT	HKMN	HKMN	STDN	3
ORBIT	пкий пки	• • •									
	DAYTIME	THIR			ASC.	NODE					
							9085	0.048	0247	9086K	A
9084	0049 0057	9086R	A		-	E162.7	9086		0445	9086R	В
9085	0156 0244	9086R	A			E135.9	9087		0637	9087R	В
9086	0343 0452	9086R	В			E109+1	9088		0816	9088A	В
9087	0531 0619	90874	В			EU82.3	9089		1002	9889A	8
9088	0718 0806	9888A	В			E055.5	9090		1152	9090A	В
9089	0905 0954	9089A	В			E028.6	9091		1326	9091A	8
9070	1052 1141	9090A	В			E001.8	9092		1520	9092A	8
9091	1240 1528	9091A	В			W025.0	9093		1705	9093A	8
9092	1427 1715	9092A	В			HU51.8	9094		1845	9094A	8
9093	1614 1/03	9093A	8			H0/8.7	9095	-	2034	9095A	В
9094	1801 1842	9094A	В			W105.5	9096		2219	9096A	В
9095	1949 2033	9095A	В			W132.3	,,,,				
9096	2136 2217	9096A	8			W159.1					
9097	0006 0012	9100R	A		235114	E1/4+1					
										an - 176	
	NIGHTTI	HE THIR			DESC	NODE				CR - ITE	
9084	0057 0156	9086R	A		01301	5 H030./			0247		1 8
9085			В			) WU57.5			0445		В
9086			В		050440	5 W084.3			0637		8
9086			В					-	0816	_	8
9087			В.		06520	2 W111•1			1003		8
9087			В						1152	-	В
9088			8		08391	9 W138.0			1327	_	8
9088			8						1521		
9089			В		10263	5 H164.8			1705		
9089			8						1844		
9070			В	1	12135	2 E168.4 .			2034	_	
9090				l				203	2220	70768	0
9091	· · · · · -			3	14010	8 E141.6					
9891				}							
9092				3	15482	4 E114.8					
9093		_		3		1 E088.0					
9094				3	19225	7 EU61.2					
9095			. E	3		4 E034.3					
9090						0 E007.5					
9097		9100F	₹ /	A	00444	7 WU19.5					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 20 OCTOBER 1974

	THIR							ESHR				
		INT	Н	THIR	ASC.				INT	н		
D. *.	11.5 + 6.7	ORBIT	D	GRID	DESC.				ORBIT	Ď		
DATA	ON OFF	•	R	COKS	TIME	LUNG	DATA	UN OFF	•	R		
ORBIT	HRMN HRMN	STDN	S	LALD	HRMNSS	DEC	ORBIT	HRMN HRMN	STON	S		
	DAYFIME	THIR			ASC.	NUDE						
9098	0110 0158	9100R	A		013830	E147.3	9098	0006 0203	9100R			
9099	0258 0346	9099R	8			E120.5	9099	0204 0403	9099R	A .		
9100	0445 0533	9100R	8			E093.7	9100	0412 0550		8		
9181	0632 0/21	9101A	8			E066.8	9101	0555 0730	9100R	8		
9192	0823 0908	9102A	В			E040.0	9102	0/35 0917	9101A	8		
9103	1007 1055	9103A	8			E013.2	9103		9102A	В		
9104	1154 1243	9104A	В			H013.7	9104	0922 1104	9103A	8		
9105	1341 1450	9105A	В			HU40.5	9105	1109 1250	9104A	В		
9106	1529 1617	9106A	В			W067.3	_	1255 1436	9105A	9		
9107	1716 1801	9107A	В			H094.1	9106	1441 1620	9106A	8		
9108	1903 1943	9108A	8			W120.9	9107	1624 1803	9107A	8		
9109	2050 2131	9109A	В			W147.7	9108	1807 1945	9108A	В		
9110	2238 2321	9110A	8			W1/4.6	9109	1950 2132	9109A	8		
-			.,		200747	41/4.0	9110	2138 2322	9110A	8		
	NIGHTIIM	E THIR			DESC.	NUDE		NEMS - SO	R + ITE	PR		
9098	0204 0258	9099R	8		023203	Un46.4		4004 400				
9099	0346 0402	9099R	8		041919			0006 0203	9100R	A		
9099	0412 0445	9100R	8					0204 0403	9099K	8		
9100	0533 0544	9100R	В		060635	unuq. a		0412 0550	9100R	8		
9100	0555 0632	9101A	В		000000			0555 0730	9101A	B		
9101	0721 0/28	9101A	В		075352	H126 6		0735 0917	9102A	В		
9101	0735 0820	9102A	8		0.3032	*120.0		0922 1104	9103A	8		
9102	0908 0915	9102A	8		094108	U453 4		1109 1250	9104A	В		
9182	0922 1007	9103A	8		0 14100	4120.4		1255 1436	9105A	8		
9103	1055 1102	9103A	В		112825	E 4 7 0 A		1441 1620	9106A	8		
9103	1109 1154	9104A	В		112029	£1/7.0		1024 1803	9107A	В		
9104	1255 1341	9105A	8		434544	C457 A		1807 1946	9108A	В		
9105	1441 1529	9106A	8		131541			1950 2132	9109A	8		
9106	1624 1/16	9107A	В		150257		•	2138 2323	9110A	8		
9107	1808 1903	9108A	8		165014							
9108	1952 2050	91094	_		183730							
9109	2139 2238	9110A	8		202447							
9110	-10, 5500	ATTON	В		221203							
4 7					235920	M 0 0 8 • 0						

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 21 OCTOBER 1974

IHIR						ESMR					
	_	INT		THIR	ASC.					INT Orbit	+
	11.5 + 6.7	ORBIT	D	GRID	DESC.			24	055		D
DATA	ON OFF	•	R	CORR	TIME	LONG	DATA	ON		*	स
ORBIT	HRMN HKMN	STON	S	LALD	HRMNSS	DEG	ORBIT	HKMM	HRMN	STDN	S
	DAYTIME	THIR			ASC.	NUDE					
9111	0105 0113	9115A	A		005304	E158.6	9112	0105	0300	9115A	A
9112	8212 0301	9115A	A		024020	E131.8	9113	0504	0459	9113R	В
9113	0359 0448	9113R	В		042736	E105.0	9114	0915	0653	9114R	8
9114	0547 0635	9114R	В		061453	E078.2	9115	0678	0832	9115A	В
9115	0734 0822	9115A	8		080209	E051.4	9116	0837	1015	9116A	8
9116	0921 1018	9115A	В		094926	E024.5	9117	1024	1206	9117A	8
9117	1108 1157	91174	В		113642	W002.3	9118	1214	1351	9118A	В
9118	1256 1344	9118A	В		132358	W029.1	9119	1375	1535	9119A	В
9119		9119A	В		151115	₩055.9	9120	1539	1717	9120A	В
9120		9120A	8		165831	WU82.7	9121	1/23	1904	9121A	В
9121		9121A	8		184548	H109.6	9122	1908	2046	9122A	8
9122		9122A	В		203304	W136.4	9123	2051	2237	9123A	8
9123		9123A	В		222020	W163.2					
	NIGHITIM	E THIR			DESC.	NUDE		NEM	s <b>-</b> sc	R - ITP	R
9111	0113 0212	9115A	A		014636	W034.8		_	0300	9115H	A
9112	0303 0359	9113R	В		033352	W061.6			8459	9113H	8
9113	0448 0500	9113R	В		052109	W088.4			0653	9114R	В
9113	0515 0547	9114R	В						0832	9115A	8
9114	0635 0651	9114R	8		070825	W115.2		-	1015	9116A	В
9114	0658 0/34	9115A	В						1206	9117A	В
9115	8822 0830	9115A	В		085542	W142+1			1351	9118A	В
9115	0837 0921	9116A	8						1534	9119A	8
9116	1010 1017	9116A	8		104258	H168.9			1718	9120A	В
9116	1024 1108	9117A	В						1903	9121A	8
9117	1157 1205	9117A	В		125014	E164.3			2047		В
9117	1213 1256	9118A	8					2051	2227	9123A	8
9118	1356 1443	9119A	8			E137.5					
9119	1539 1630	9120A	В			E110.7					
9120	1722 1818	9121A	В			EU85.9					
9121	1908 2005	9122A	В			E057.1					
9122	2053 2152	9123A	В			E030.3					
9123	2308 2339	9126R	A		231353	3 EUU3.4					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 22 OCTOBER 1974

FHIR							ESMR					
		7										
	44 6 . 4 7	INT	Н	THIR	ASC.	ANU				INT	н	
DATA	11.5 + 6.7 On Off		_	GRID	DESC.	NODE				ORBIT	Ď	
ORBIT		<b>+</b>	R	CORR	TIME	LUNG	DATA	UN	OFF	+	ĸ	
OKBII	HRMN HKMN	STDN	S	FYFJ	HRMNSS	DEG	ORBIT		HRMN	STON	ŝ	
		•								- · · · · ·	•	
	DAYFIM	E THIR			ASC.	NUDE						
9124		9126R	A		000737	E170.0						
9125	0127 0215	9126R				E143.2	9124		0106	9126R	A	
9126	0314 0402	9126R	В		034210	E116.4	9126		0420	9126R	8	
9127	0501 0550	9127R	8		052926		9127		0608	9127K	8	
9128	0648 0/37	9128A	В		071642	EU07.7	9128	_	0/50	9128A	В	
9129	0836 0924	9129A	B		090359	E002.7	9129		0936	9129A	В	
9130	1023 1111	9130A	В		105115		9130		1120	9130 A	В	
9131	1210 1259	9131A	8		123832	LUU7-1	9131		1306	9131A	8	
9132	1357 1446	9132A	8		142548	WU17.0	9132		1451	9132A	8	
9133	1545 1631	9133A	В				9133	1476		9133A	8	
9134	1732 1814	9134A	В		161304	WU/1.4	9134	1639		9134A	В	
9135	1919 1959	9135A	В		180021	M049.5	9135	1821	2000	9135A	8	
9136	2107 2150	9136A	В		194737	W125.0	9136	2005	2151	9136A	θ	
9137	2254 2336	9137A	В		213453		9137	2175	2337	9137A	В	
	-				232210	W1/8./						
	NIGHTTIH	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R	
9124	0028 0104	9126R	A		010109	UB23.4						
9124	0034 0127	9126R	В					2308		9126R	A	
9125	0222 0514	9126R	8		024826	H050.2		0221		9126R	В	
9126	0402 0418	9126R	8					0427	0608	9127R	В	
9126	0427 0501	9127R	В		043542	¥027.1				_		
9127	0550 0607	9127R	В		062258			0613		9128A	В	
9127	0613 0648	9128A	В					0754		9129A	В	
9128	9737 0/47	9128A	8		081015	H130-7		0941		9130A	В	
9128	0754 0836	9129A	В					1126		9131A	8	
9129	0924 0934	9129A	В		095731	W157 6		1311	_	9132A	В	
9129	0941 1023	9130A	В			417/47		1456	-	9133A	В	
9130	1111 1118	9130A	В		114448	C176 7		1638		9134A	В	
9130	1126 1210	9131A	B		114440 (	L1/J./ .		1820		9135A	В	
9131	1259 1304	9131A	В		133204	F 4 4 9 0		2005		9136A	8	
9131	1311 1357	9132A	8			740.4		21>6	2338	9137A	В	
9132	1456 1545	9133A	В		151920 0							
9133	1638 1/32	9134A	В		151920 8							
9134	1821 1919	9135A	8		170637 8							
9135	2008 2107	9136A	8		185353 E							
9136	2157 2254	9137A	В		204110 8							
9137	2342 0041	9140R	_		222826 E	014.8						
_	= : · = · • • • • •	. 1 7 0 4	A		001543 H	1012.0						

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 23 OCTOBER 1974

CHIR									SMR		
										INT	 ਜ
		INT	H	THIR	ASC. A					ORBII	D
	11.5 + 6.7	ORAIT	D	GRID	DESC.		D. T.	ON	OFF	+	Ř
DATA	ON OFF	•	R	CORS	TIME	LUNG	DATA ORBIT		HRMN	STDN	s
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	DEG	UKBII	пким	пкии	375	
	DAYTIME	THIR			ASC.	NUDE					
		9140R	A		010926	E154.5	9138	2338	0137	9140R	A
9138	0041 0130	9139R	В			E127.7	9139	0137	0335	9139R	3
9139	0228 0317	9140R	В			E100.9	9140	0547	0520	9140R	8
9140	0416 0504	9142A	В			EU/4.1	9141	0525	0/11	9142A	В
9141	0603 0651	9143A	Ā			E047.3	9142	0/11	0855	9143A	A
9142	0750 0839	9143A	8			EU20.5	9143	0855	1031	9143A	В
9143	0937 1026	9144A	В		_	W006.4	9144	1038	1224	91444	В
9144	1125 1213	_	В			W033.2	9145	1251	1403	9145A	В
9145	1312 1400	9145A 9146A	В			WU60.0	9146	1405	1540	9146A	8
9146	1459 1548	9145A	B			W086.9	9147		1735	9147A	8
9147	1646 1/32		В			W113.7	9148		1917	9148A	8
9148	1834 1916	9148A				W140.5	9149		2107	9149A	В
9149	2021 2104	9149A 9150A	B B			W167.5	9150		2253	9150A	8
9150	2208 2251	,2,0,,							_		
	NIGHFTI	E THIR			DESC.	NUDE		NEM	<b>s</b> - sc	CR - ITF	'K
								244	0437	9140R	A
9138	0130 0135	9140R	A		020259	H038.9			0137	9139R	B
9138	0137 0228	9139R	В		_					-	
9139	0317 0334	9139R	В		035015	W065.7			0521	_	8
9139	0346 0416	9140R	В						0856		
9140	0504 0520	9140R	8		053732	N092.5					
9140		9142A	В						1032		
9141		9142A	В		072448	W119.3			1224	_	
9141		9143A	A						1404	_	
9142	_	9143A	A		091205	5 W146.1			1549		
9142		9143A	В						1735		
9143		9144A	9		10592	1 W1/3.0		_	1918		
9144		9144A	8	}	12463	7 E160.2			2107		
9144			a	}				211	3 2253	9150A	В
9145				)		4 E133.4					
9146		_		}	16211	0 E106.6					
9147				j .		7 E0/9.8					
9148				3		3 EU53.0					
9149				3		9 E026.2					
9150					23501	6 W000.7					
7170	•										

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 24 OCTOBER 1974

	THI			ESHR							
	*********										
		INT	н	THIR	ASC.					INT	н
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NODE				ORBIT	D
DATA	ON OFF	•	Ř	COKS	TIME	LUNG	DATA	ON	UFF	•	R
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STON	s
											•
	DAYTIME 1	HID			400 41	205					
	<b>U</b>				ASC. NO	JUE					
9151	0036 0044	9153R	A		002150	£165.9	0450				
9152	0143 0251	9153R	A			E139.1	9152		0235	9153K	A
9153	0330 0419	9153R	В			E112.3	9153		0434	9153R	8
9154	0517 0606	9154R	В			E085.5	9154		0625	9154R	8
9155	0705 0/53	9155A	В			EU58.6	9155	_	0602	9155A	В
9156	0852 0940	9156A	8				9156		0950	9156A	В
9157	1039 1128	9157A	В			E031.8	9157		1134	9157A	В
9158	1226 1315	9158A	В		110/38		9158		1323	9158A	В
9159	1414 1502	9159A	В			H021.8	9159		1507	9159A	8
9160	1601 1649					W048.7	9160	1511		9160A	8
9161	1748 1829	9160A	В		162927		9161	1676	1830	9161A	В
9162		9161A	В		181643		9162	1836	2019	9162A	В
9163	1935 2017	9162A	В		200400		9163	2025	2208	9163A	В
-	2123 2206	9163A	8			H155.9	9164	2213	2355	9164A	В
9164	2310 2354	9164A	8		233833	E177.5					
	NIGHITIM	E THIR			DESC.	NODE		NE MC			_
		_			2200			NERS	- 50	R - IIP	K
9151	0044 0143	9153R	A		011732	W027.5		0036	0235	9153R	
9152	0235 0330	9153R	В		030449			0235			A
9153	0419 0432	9153R	В		045205			0442		9153R	8
9153	0442 0517	9154R	8							9154R	8
9154	0606 0623	9154R	В		863921	W108.0		9631	-	9155A	В
9154	0631 0/05	9155A	В					0808		9156A	В
9155	0753 0800	9155A	В		082638	U-134 B		0954		9157A	8
9155	0808 0852	9155A	В		002000	~104.0		1139		9158A	8
9156	0940 0948		В		101354	U161 6		1528		9159A	8
9156	0954 1039	9157A	В		101034	4101.0		1511		9160A	8
9157	1139 1226	9158A	В		120111	U474 4		1656		91614	В
9158	1315 1321	9158A	В					1836		9162A	B
9158	1328 1414	9159A			134827	£144.0		2025		9163A	В
9159	1511 1601	9160A	8		461647	544 <b>9</b> 0		2213	2356	9164A	8
9168	1656 1/48	9161A	В		153543						
9161	1837 1935		8		172300						
9162	2025 2123	9162A	8		191016						
9163	2213 2310	9163A	В		205733						
9164	2358 0057	9164A	8		224449						
,104	2370 0037	9167R	A		003205	W016.2					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 25 OCTOBER 1974

THIR							ESHR				
		INT	н	THIP	ASC. A	ND				INT	H
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D
DATA	ON OFF	• ,	R	COKR	TIME	LONG	DATA	ON	OFF	•	R
ORBIT	HRMN HRMN	STDN	S	LALD	HRMNSS	UEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME T	HIR			ASC. NO	DDE					
		04470			413540	E150.4	9165	2355	0152	9167R	A
9165	0057 0146	9167R	A		-	E123.6	9166		0352	9166R	В
9166	0245 0333	9156R	8		_	E096.8	9167		0538	9167R	8
9167	0432 0520	9167R	8			EU/0.0	9168		0/23	9168A	В
9168	0619 0/08	9168A				E043.2	9169		0906	9169A	В
9169	0806 0855	9169A	В			E016.3	9170		1056	9170A	В
9170	0954 1042	9170A	В			W010.5	9171		1238	9171A	8
9171	1141 1229	9171A	В			W037.3	9172		1423	9172A	8
9172	1328 1417	9172A	В			H064.1	9173		1606	9173A	В
9173	1515 1604	9173A	8				9174		1752	9174A	8
9174	1703 1/50	9174A	8			W091.0	9175		1932	9175A	8
9175	1850 1931	9175A	В			W117.8	9176		2120	9176A	В
9176	2037 2118	9176A	Ð			W144.6	9177		2308	9177A	В
9177	2224 2308	9177A	8		22300	H171.4	71//		2000	, 2, , ,	
	NIGHTTI	E THIR			DESC.	NODE				R - ITF	
		044.70			894922	H043.0		2355	0152	9167K	A
9165	0146 0151	91678	A		021722	404380			0352	9166R	В
9165	0153 0245		В		040638	W069.8			0539	_	8
9166	0333 0350	9166R	В		0 4 0 0.70	400,00			0723	9168A	8
9166	0400 0432	91679	8		465156	W096.6			0906	9169A	8
9167		9167R	8		0,,,,,	407040			1056	9170A	В
*9167		9168A	B		074111	H123.4			1239	9171A	В
9168	0708 0/21	9168A	В		0/4111	"15004			1423	9172A	В
9168	0727 0806	9169A	В		000127	W150.2			1606		В
9169		9169A	8		072027	~17002			1752	9174A	В
9169		9170A	8		5 4 4	W1/7.0		_	1933	9175A	В
9170	_	9170A	В		111244	41//*0		_	2120	9176A	_
9170		91/1A	8		474704				2309	9177A	8
9171		9171A	8		130300	E156.1		2122	, 200,	,,,,,	•
9171		9172A	В								
9172			В		-	E129.3					
9173		9174A	8			5 E102.5					
9174		9175A	9			E075.7					
9175		91764	В			E048.9					
9176	2126 2224	9177A	В			2 E022.1					
9177					234639	9 W004.8					
*DIFF	ERENT 6./ T	IMES									
9167	0544 0619	9168A	8								

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 26 OCTOBER 1974

	THIR				ESMR						
	•										
	_	INT	Н	THIR	ASC.	AND				INT	н
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NODE				ORBIT	D
DATA	ON OFF	•	R	COKE	TIME	LUNG	DATA	UN	OFF	<b>*</b>	R
ORBIT	HRMN HRMN	STON	S	LALD	HRMNSS	DEG	ORBIT	нкчи		STON	S
	DAYFIME	THIR			466	Nune.					
					430.	NUDE					
9178	0053 0100	9180R	A		004022	E161.8	9179	0052	0248	9180R	A
9179	0159 0247	9180R	A		022738	E135.0	9180	02>2		9180R	B
9160	0346 0435	9180R	В			E108.2	9181	0457		9181R	8
9181	0534 0622	9181R	В		060211	E081.4	9182	0647		9182A	8
9182	0721 0809	9182A	В			E054.5	9183	0822		9183A	В
9183	0908 0957	9183A	В		093644	E027.7	9184	1012		9184A	В
9184	1055 1144	9184A	В			E000.9	9185	1156		9185A	8
9185	1243 1331	9185A	В			H026.0	9186	1170	100,	9186A	8
9186	1430 1518	9186A	В			W052.8	9187	1>31	1707	9187A	
9187	1617 1/04	9187A	8			W079.6	9188	1/12			В
9188	1804 1848	9188A	8			W106.4	9189	1854		9138A	В
9189	1952 2033	9189A	8			W155.2	9190	2040		9189A 9190A	8
9190	2139 2223	9190A	В		220739	W160.1	9191	2254		9190A 9193R	В
9191	2326 0015	9193R	A			E173.2	,1,1	2274	0073	7173K	A
	NIGHTTIME	E THIR			DESC.	NUDE		NEMS	<b>-</b> sr	R - ITP	۰.
									- 30		n 
9178	0100 0159	9180R	A		013355	W031.6		00>2		9180R	
9179	0251 0346	9180R	В			H058.4		0251	_	9180R	A B
9180	0435 0449	9180R	В			W085.2		0458		9181R	
9180	0458 0>34	9181R	В					0646		9182A	8 8
9181	0622 0639	9181R	В		065544	W112.8		0822		9183A	
9181	0646 0/21	9182A	В					1012		9184A	8
9182	0822 0908	9183A	В		984301	W138.9		11>5		9185A	8
9183	0957 1003	9183A	В		103017			1342			В
9183	1013 1055	9184A	θ					1530		9186A	В
9184	1155 1243	9185A	8		121734	F167.5			_	9187A	B
9185		9186A	8		140450			1/11		9188A	8
9186	1530 1617	9187A	8		155206			1854		9189A	8
9187	1711 1804	9188A	8		173923			2040		9190A	В
9158	1854 1952	9189A	В		192639			2230	0053	9193R	A
9189	2040 2139	9190A	В		211356						
9190	2254 2326	9193R	Ā		230112						
9191	0015 0051	9193R	Â								
	11	- 1 - OK	~		004828	mu20.3					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 27 OCTOBER 1974

THIR							ESMR				
	11.5 + 6.7	INT Orbit	H D	THIR	ASC. /					INT Orbit	H D
	ON OFF	.+	R	COKS	TIME	LONG	DATA	ON	OFF	+	R
DATA	HRMN HRMN	STON	S	LALD	HRMNSS		OKBIT		HRMN	STDN	ŝ
ORBIT	AKAN AKAN	3104	5	LACI	пипиээ	DEG	OKBII	пкпи	пким	3104	3
	DAYTIME T	HIR			ASC. NO	DDE					
9192					014214	E146.3	9193	0208	0329	9193R	8
9193	0301 0349	9193R	8		032930	E119.5	9194	0415	0556	9195A	В
9194	0448 0536	9195A	В		051646	E092.7	9195	0556	0735	9196A	A
9195	0635 0/24	9196A	A		070403	E065.9	9196	0739	0920	9196A	8
9196	0823 0911	9196A	B		085119	E039.0	9197	0925	1112	9197A	В
9197	1010 1058	9197A	В		103836	E012.2	9198	1117	1253	9198A	В
9198	1157 1246	9198A	В		122552	W014.6	9199	1258	1437	9199A	8
9199	1344 1453	9199A	8		141308	W041.4	9200	1442	1622	9200A	В
9280	1532 1619	9200A	В		160025	W068.2	9201	1626	1807	92014	8
9201	1719 1804	9201A	8		174741	W045.0	9202	1811	1948	9202A	В
9202	1906 1946	9202A	8		193458	W121.9	9203	1954	2137	9203A	8
9203	2053 2136	9203A	В		212214	4148.7	9204	2147	2313	9204A	8
9204	2241 2324	9204A	В		230930	W1/5.5					
	NIGHTIIN	E THIR			DESC.	NODE		NEM	s - sc	R - ITP	R
9192	0209 0301	9193R	В		023547	H047.1		8288	0330	9193R	В
9193		9193R	8			HU/3.9			0555	9195A	В
9193		9195A	В					_	0735	9196A	Ā
9194	_	9195A	В		061020	W100.7		-	0920	9196A	В
9194		9196A	A		001020	2 4 5 5 7			1112	9197A	В
9195		9196A	A.		075736	W127.5			1254	9198A	В
9195		9196A	8						1437	9199A	8
9196		9196A	В		094452	W154.3			1621	9200A	8
9196		9197A	В						1806	9201A	В
9197		9197A	В		113209	£1/8.8			1949	9202A	В
9197		9198A	В		11020	C1/ 000			2138	9203A	8
9198		9198A	В		131925	E152.0	•		2314	9204A	В
9198		9199A	8		101.23				2014	, 60 44	
9199		9200A	В		150642	£125.2					
9200		92014	8			E098.4					
9201		9202V	В			E0/1.6					
9202		9203A	8			E044.7					
9203		9204A	В		_	E017.9					
9204		76 U 4 A	U		-	H008.9					
7604					000304	- U U U • 7					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 28 OCTOBER 1974

	FH1R				ESHR						
		INT	н	THIR	ASC.	A NII					
	11.5 + 6.7	ORBIT	D	GRID	DESC.					INT	H
DATA	ON OFF	+	R	CORR	TIME	LUNG	DATA		055	ORBIT	D
ORUIT	HRMN HKMN	STON		LAL	HRMNSS	DFC	ORBIT	UN	OFF	*	R
ONDI		3100	3	LACS	пкинээ	שבע	OKBII	HRMN	HKTN	STON	S
	DAYTIME	THIR			ASC.	NUDE					
9205	0108 0116	9207R	A		005647	E157.7	9206	0108	0307	9207R	A
9206	0215 0304	92079	A		024403	E130.9	9207	0307		9207H	8
9207	0402 0451	9207R	8		043120	E104.0	9208	0>13		9209A	В
9208	0550 0638	9209A	В		061856	E0/7.2	9209	0659	0843	9210A	Ā
9209	0737 0825	9210A	A		080552	E050.4	9210	0848		9210A	В
9210	0924 1013	9210A	В		095309	E023.6	9211	1027	_	9211A	В
9211	1112 1200	9211A	8		114025	W003.2	9212	1212	1353	9212A	В
9212	1259 1347	9212A	8		132742	WU30.1	9213	1358		9213A	8
9213	1446 1535	9213A	В		151458	W056.9	9214	1543	1722	9214A	8
9214	1633 1/20	9214A	В		170214	W083.7	9215	1727	1903	9215A	В
9215	1821 1982	9215A	Ð		184951	₩110.5	9216	1908	2056	9216A	В
9216	2008 2054	9216A	В		203647	H137.3	9217	2102	2240	9217A	8
9217	2155 2237	9217A	В		222404	W164.1					
	NIGHTTIH	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R
9205	0116 0215	9207R	A		015020	W035.7		018	0307	9207R	A
9206	0307 0402	9207R	В			H062.5		0307		9207R	В
9207	0451 0504	9207R	8		052453	H089.4		0514		9209A	В
9287	0513 0550	9209A	В					0659		9210A	В
9208	0638 0656	9209A	8		071209	W116.2		0843	1022	9210A	Ā
9208	0659 0/37	9218A	A					1027		9211A	В
9209	0825 0836	9210A	A		085926	W143.0		1212		9212A	В
9209	0843 0924	9210A	8			-		1358	_	9213A	8
9210	1013 1020	9210A	8		104642	W169.8		1542		9214A	В
9210	1027 1113	9211A	В					1727		9215A	В
9211	1212 1259	9212A	В		123359	E163.4		1908		9216A	В
9212	1358 1446	9213A	8		142115	E136.5		2102	_	9217A	В
9213	1542 1653	9214A	В		160831	E109.7		<del>-</del>			•
9214	1727 1821	9215A	В		175548	E082.9					
9215	1909 2008	9216A	8		194304	E056.1					
9216	2112 2155	9217A	8			E029.3					
9217	2311 2342	<b>3550</b> 5	A		231/3/	£002.5					

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 29 OCTOBER 1974

THIR							ESMR					
		INT	Н	THIR	ASC.					INT	H	
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D	
DATA	ON OFF	+,	R	COKR	TIME	LUNG	DATA	ON	OFF	+	R	
ORBIT	HRMN HRMN	STON	S	LALJ	HRMNSS	DEG	ORBIT	HKMN	HRMN	STON	S	
					_							
	DAYIIME	THIR			W2C.	NUDE						
9218	2342 0031	9220R	A		001120	E169.0	9218	2310	0108	9220K	A	
9219					015836	E142.2	9220	0224	8419	9220K	8	
9220	0317 0405	92209	В		034553	£115.4	9221	8429	0609	9222A	8	
9221	0504 0553	9221R	В		053309	E088.6	9222	0617	0754	9223A	A	
9222	0652 0/40	9222A	В		072026	E061.8	9223	8758	0938	9223A	В	
9223	0839 0927	9223A	B		090742	E034.9	9224	0943	1125	9224A	В	
9224		9224A	8		105458	E008-1	9225	1150	1312	9225A	B	
9225	1213 1302	9225A	В		124215	4018.7	9226	1516	1454	9226A	В	
9226		9226A	8		142931	W045.5	9227	1458	1637	9227A	8	
9227		9227A	8			W0/2.3	9228	1642	1825	9228A	В	
9228		9228A	В		180404	H099.2	9229	1850	2005	9229A	8	
9229		9229A	В		195120	W126.0	9230	2009	2154	9236A	В	
9230		9238A	В		213837	W152.8	9231	2159	2342	9231A	8	
9231		9231A	В		232553	W179.6						
						•			•			
	NIGHTTIM	E THIR			DESC.	NODE		NEM	S - SC	R - ITP	'R	
9218	0031 0108	9220R	A		010453	HU24.4		2511	0109	9220H	A	
9219			8		025210	W051.2		0224	0420	9220R	В	
9220		9220R	В		845926	HU/8.0		8429	0610	9221K	8	
9220		9221R	В					0618	0/54	9222A	8	
9221		9221R	В		062643	W104.8		0/58	0939	9223A	В	
9221		9222A	В					0944	1125	9224A	B	
9222		9222A	В		081359	W131.6		1129	1311	9225A	В	
9222		9223A	В					1316	1454	9226A	8	
9223		9223A	В		100116	W158.5		1459	1637	9227A	В	
9223		9224A	В					1642	1824	9228A	8	
9224		9224A	В		114832	E1/4.7	•	1850	2005	9229A	В	
9224		9225A	В					2009	2154	9238A	В	
9225		9225A	8		133548	E147.9		2159	2342	9231A	В	
9225		9226A	В			-			-			
9226		9227A	В		152305	E121.1						
9227		9228A	В			E094.3						
9228		9229A	В			E067.5						
9229		9230A	8			EU40.6						
9230		9231A	В			E013.8						
9231	–	9234R	Ā			W013.0						

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 30 OCTOBER 1974

	THIR							ESMR					
		INT	Н	THIR	ASC.	AND				INT	н		
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D		
DATA	ON OFF	. •	R	CORR	TIME	LUNG	DATA	UN	OFF	+	Ř		
ORBIT	HRMN HKMN	STON	S	FWF3	HRMNSS	υEG	OKBIT	HKMN	HRMN	STDN	Š		
	DAYIIME	THIR			ASC.	NUDE							
9232	0044 0133	9234R	A		011310	E153.6	9232	2542	0142	9234R			
9233	0231 0520	9233R	8			E126.8	9233		0342	9233K	A .		
9234	0419 0507	9234R	В			E099.9	9234		0524	9234R	8		
9235	0606 0654	9235R	В			E073.1	9235		0712	9235R	4		
9236	0753 0842	9235A	В			E046.3	9236		0852	9236A	В		
9237	0940 1029	9237A	8			E019.5	9237	0857			В		
9238	1128 1216	9238A	8		115648		9238	1043	-	9237A 9238A	8		
9239	1315 1403	9239A	В		134484		9239	1227			В		
9240	1502 1751	9240A	В			W061.0	9240	1417		9239A	B		
9241	1650 1/37	9241A	В		171837		9241		-	9240A	В		
9242	1837 1424	9243A	В		190554		_	1779		9241A	В		
9243	2024 2110	9243A	Ā		205310		9242 9243	1/43		9243A	8		
9244	2211 2255	9244A	В			W168.3		1926		9243A	A		
		• • • • • • • • • • • • • • • • • • • •	•		22,4020	H10040	9244	2112	2255	9244A	8		
	NIGHTTIME	THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R		
9232	0141 0231	9233R	В		020643	Mato.a		2740					
9233	0320 0340	9233R	В		035480			2342		9234R	A		
9233	0347 0419	9234R	8		003400	~*****		0141	_	9233R	8		
9234	0507 0523	9234R	B		054116	unot.s		0547		9234R	В		
9234	0530 0606	9235R	8		034116	WU 73 4 5		0530		9235R	8		
9235	8654 0/46	9235R	8		072832	Hann T		0/17	–	9236A	В		
9235	0717 0/53	9236A	8 .		0,2002	#150.3		0856		9237A	В		
9236	0842 0850	9235A	В		091549	U147 1		1043		9238A	В		
9236	0856 0940	9237A	8		0,1344	414/01		1228		9239A	В		
9237	1029 1035	9237A	8		110305	U . 7 % O		1416		9240A	8		
9237	1043 1128	9238A	8		110303	M1/3.7		1559	_	9241A	8		
9238	1216 1221	9238A	8		105400	5440.1		1/43		9243A	8		
9238	1227 1315	9239A	8		125022	£159.3	•	1926		9243A	A		
9239	1403 1409	9239A	8		444770			2112	2255	9244A	8		
9239	1416 1>02	9240A			143738	£135.2							
9240	1559 1650		В										
9241	1743 1837	9241A	В		162455								
9242	1926 2024	9243A	В		181211								
9243		9243A	A		195927								
9244	2113 2211	92444	8		214644								
7644					233400	W001.7							

### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 31 OCTOBER 1974

THIR						ESMR					
					.00	Na				INT	<del>-</del> -
	_	INT	H	THIR	ASC.					ORBIT	D
	11.5 + 6.7	ORBIT	D	GRID	DESC.		DATA	ON	OFF	+	Ř
CATA	ON OFF	•	R	CORR	TIME	LUNG	ORBIT	HRMN		STON	s
11891	HRMN HKMN	STDN	S	LALJ	HRMNSS	DEG	ORBIT	1114			•
	DAYIIME	THIR			ASC.	NODE					
4245					002743	E164.9	9248		0605	9250A	A
9246					021459	E138.1	9249		0804	9249A	В
4247		9250A	A			E111.3	9250	0813	0952	9250A	9
4248		9250A	Ā			EU84.5	9251	0956	1143	9251A	8
4249	. –	9249A	В			E057./	9252	1148	1226	9252A	В
4250		9250A	В			EU30.8	9253	1335	1509	9253A	8
		9251A	В			E004.0	9254	1514	1657	9254A	В
4251		9252A	В			W022.8	4255		1837	9255A	В
9252		9253A	В			W049.6	9256		2023	9256A	8
9253		9254A	В			WU/6.4	9257	2028	2212	9257A	8
9254		92554	8			W105.3	9258	2217	0000	9258A	8
9255		9255A	8			W130.1	_				
9256						W156.9					
9257		9257A	В			E1/6.3					
9256		9258A	8		234210	61/040					
9258	2357 0002	9261R	A								
	NIGHITI	ME THIR			DESC.	NUDE				CR - IT	
	_				01211	4028.5			0606		
924						3 W0>5.3			9804		8
9240		00584				WU82+1			8951		8
9247			A			W108.9			1144		8
924			8			2 W135.7			1327		
924			В		003024	410347			1510		В
924			8		40476	9 W162.6			1657		
925			В		101/3	, MI05.0			1836		
925			В		40045	= = = 10			2024		
925			В		12045	5 E1/0.6			2212		
425			8						7 0000		
925			8			1 E143.8		5 6 1 4		, _ , 0 ,	
425			9			8 E117.0					
925		92554	9			4 E090.2					
925	5 1843 1939	9255A	В		-	1 E063.4					
925	6 2028 2126	9257A	9	:		7 EU36.5					
925	7 2217 2313	9258A	8	l		3 E009.7					
925	5 0002 0100	9261R	A	1	00355	0 H017.1					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 1 NOVEMBER 1974

	FHIR						ESMR					
	•											
		INT	Н	THER	ASC.					INT	H	
D. T.	11.5 + 6.7	ORRIT	D	GRID	DESC.					URBIT	D	
DATA	ON OFF	•	R		TIME	LONG	DATA	UN	OFF	•	R	
ORBIT	HRMN HRMN	STDN	S	LÀLJ	HRMNSS	DEG	.OKBIT	HRMN I	HRMN	STON	S	
	DAYIIME	THIR			ASC.	NUDE						
9259	0100 0149	9261R	A		012932	E149.5	9259	2357	0155	00449		
9260	0248 0536	9260R	8			£122.7	9260	0155		9261R	<b>A</b>	
9261	0435 0523	9261R	8		050405	EU95.8	9261	0405		9260R	A	
9262	0622 0/11	9263A	B			E069.0	9262			9261R	В	
9263	0809 0858	9263A	Ā			EU42.2		0547		9263A	В	
9264	0957 1045	9264A	9			EU15.4	9263	0724		9263A	A	
9265	1144 1252	92654	8			H011.4	9264	0912		9264A	9	
9266	1331 1420	9266A	8				9265	1103		9265A	В	
9267	1518 1607	9267A	В			H838.3	9266	1247		9266A	8	
9268	1706 1/48	9268A	В			HU65.1	9267	1450		9267A	B	
9269	1853 1935	9269A	8			H891.9	9268	1615		92684	8	
9270	2040 2128	9270A				H118.7	9269	1/59		9269A	8	
9271	_		9			H145.5	9270	1941	2129	9270A	Э	
45,1	2228 2312	92714	8		225649	H1/2.4	9271	2135	2314	9271A	В	
	NIGHTIM	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	R	
9259	0156 0248	9260R	В		022306	H043.9		2356	U155	9261R	A	
9260	0336 0347	92609	8		041023	W0/0.8		0125 (	0354	9260R	В	
9260	0402 0435	9261R	8					0402	0541	9261R	8	
9261	0523 0539	9261R	В		055739	H097.6		0546	_	9263A	В	
9261	0546 0622	9263A	В					0/24	_	9263A	Ā	
9595	0711 0/23	9263A	В		074456	W124.4		0912		9264A	В	
9262	0725 0809	9263A	A			<del></del>		1103		9265A	В	
9263	0858 0989	9263A	A		093212	W1>1.2		1247		9266A	8	
9263	0912 0957	9264A	В					1429				
9264	1045 1056	9264A	В		111928	W178.0		1614	-	9267A	В	
9264	1103 1144	9265A	В		111.00					9268A	8	
9265	1232 1240	9265A	В		130645	£155.2	-	1759		9269A	8	
9265	1247 1331	9266A	В		100047	C17702		1941 2	-	9270A	8	
9266	1429 1518	9267A	В		145404	E108 4		2134	2314	92714	В	
9267	1615 1706	9265A				E128.4						
9268	1759 1853		В			E101.6						
9269	1941 2040	9269A	В			E0/4.7				•		
9270	2134 2228	92704	B			E04/.9						
9271	-13- 2658	9271A	8		220307							
76/1					235023	W005.8						

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 2 NOVEMBER 1974

	THIR			•			ESHR				
		INT	H	THIR	ASC. A					INT	H
	11.5 + 6.7	ORBIT	D	CRID	DESC.		0.7.	(1)	OFF	ORBIT	D २
DATA	ON OFF	÷ - 704	R	COK3	TIME	LUNG	DATA	UN		STDN	s
ORBIT	HRMN HRMN	SJDN	S	LALJ	HRMNSS	DEG	ORBIT	7500	HRMN	2104	3
	DAYTIME	THIR			ASC.	NODE					
9272	0056 0183	9274R	A		004405	E160.8	9273	0056	0250	9274R	A
9273	0202 0251	9274R	A		023122	E134.0	9274	0255	0453	9274R	ь
9274	0349 0458	9274R	9		041838	E107.2	9275	0502	0646	9275R	3
9275	0537 0625	9275R	В		060555	EU80.4	9276	0651	0823	9276A	8
9276	0724 0812	9276A	8		075311	£053.6	9277	0828	1010	9277A	В
9277	0911 1000	9277A	В		894027	E026.7	9278	1015	1155	9278A	8
•9278	1058 1147	9278A	В		112744	H000.1	9279	1201	1342	9279A	В
9279	1246 1334	92794	8		131500	WU26.9	9280	1547	1527	9280A	В
9280	1433 1>21	9280A	В		150217	HU53./	9281	_	1/09	9281A	9
9281	1620 1/08	9281A	В		164933	W080.5	9282	1/12	1856	9282A	В
9282	1807 1850	9282A	8		183649	H107.4	9283		2039	9283A	В
9283	1955 2037	9283A	8		202406	W134.2	9284	2043	2227	9284A	В
9284	2142 2223	9284A	В		221122	H161.0					
9285					235839	E1/2.2					
*NO 6	7 DATA										
	NIGHTTIM	E THIR			DESC.	NODE		NEM	s - sc	R - ITP	R
9272	0103 0202	9274R	A		013740	W032.6			0251	9274R	A
9273	0255 0349	9274R	8		_	HU59.4			0453	9274R	В
9274	0438 0452	9274R	Β		051212	WU86.2			0646	9275R	8
9274	0502 0537	9275R	9			_			0823	9276A	В
9275	0625 0644	9275R	В		065929	H113.0			1010	9277A	В
9275	<b>0</b> 651 0/24	9276A	8						1156	9278A	В
9276	0812 0822	9276A	В		084645	W139.8			1342	92794	В
9276	0828 0911	9277A	В					_	1527	9280A	8
9277	1000 1008	9277A	В		103402	W166.7			1710	9281A	8
•9277	1014 1058	9278A	В		400440	F444 4		-	1852	9282A 9283A	8
*9278	1147 1154	9278A	В		122118	E166.6		_	2039		9
9278	1201 1246	9279A	В		440874	C140 7		2043	2558	92844	В
9279	1334 1340	9279A	В		140634	E139.7					
9279	1347 1433	92804	8		46664	E112 G					
9280	1532 1620	92814	8			E112.9					
9281	1714 1807	92824	В			EU86.1 E059.3					
9282	1857 1955	92834	8			E032.4					
9283 9284	2043 2142	9284A	В			E005.6					
9285						WU21.2					
	.7 DATA				4472IJ	-45145					
-40 6	UAIA										

### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 3 NOVEMBER 1974

	THIR							1	ESMR		
	11.5 + 6.7	INT	H	THIR	ASC.					INT	н
DATA	ON OFF	ORUTT	D	GRID	DESC.					ORBIT	D
ORBIT	HRMN HKMN	STDN	ĸ	CORR	TIME	LUNG	DATA	ÜN	OFF	•	2
ORDII	AKON AKAN	3104	S	L'AL')	HRMNSS	DFC	OKBIT	HKMN	HRMN	STDN	S
	DAYIIME	THIR			ASC.	NUDE					
9286					014554	E145.4	0047				
9287	0304 0352	9290A	A		033310	E118.6	9287 9289		0436	9290A	A
9288						E091.7			0736	9289A	9
9289	0638 0/27	9289A	8		070743	EU64.9	9290		0924	9290A	В
9290	0826 0914	9290A	В			E038.1	9291		1110	9291A	8
9291	1013 1101	9291A	В			EU11.3	9292		1257	9292A	В
9292	1200 1249	9292A	8			W015.5	9293	1302		9293A	8
9293	1347 1456	9293A	8			WU42.3	9294	1448		9294A	В
9294	1535 1623	9294A	В			W069.2	9295	1630		9295A	8
9295	1722 1810	9295A	В			WUY6.0	9296	1815		9296A	В
9296	1909 1952	9296A	8				9297	1959		9247A	В
9297	2056 2141	9297A	В			W122.8	9298	21>0	2330	9298A	8
9298	2244 2329	9298A	8			W149.6					
		,,,,,,			231311	H176.4					
	NIGHTTIM	E THIR			DESC.	NUDE		NEMS	- sc	R - ITP	Ŕ
9286	0237 0304	9290A	A		023928	WU48.0		0044	047		
9287	0352 0433	9290A	A		042644			0236		9290A	A
9288	0540 0638	9289A	В		061401			0537		9289A	Я
9289	0727 0754	9289A	В		080117			0744		9290A	В
9289	0744 0526	9290 A	В			W120.7		0928		9291A	8
9290	0914 0922	9290A	В		094834	U165 3		1114		9292A	8
9298	0928 1013	9291A	В		0,4004	4177.3		1302	_	9293A	В
9291	1101 1108	9291A	В		113550	5127 O		1448		9294A	8
9291	1114 1200	9292A	В		113770	61//.9		1630		9295A	8
9292	1249 1255	9292A	8		130104	F114 4		1815		9296A	8
9292	1302 1347	9293A	8		132306	5121+1		1459		9297A	В
9293	1436 1441	9293A	В		151007	F		21>0	2331	9298A	В
9293	1448 1535	9294A	В		151023	t124.3					
9294	1630 1/22	9295A	В		445770	5003 -					
9295	1817 1909	9296A	-		165739						
9296	1959 2056	92974	В		184456						
9297	2150 2244	92984	В		203212						
9298	0001 0031		В		221928						
74.70	and nost	93018	A		000645	W089.8					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 4 NOVEMBER 1974

THIR					ESHR						
		INT	Н	THIR	ASC.					INT	н С
	11.5 + 6.7	ORBIT	D	GKID	DESC.					ORBIT	Ð
DATA	ON OFF	+	R	COKS	TIME	LUNG	DATA	UN	OFF	+	R
ORBIT	HRHN HKMN	STON	S	FWF 3	HRMNSS	DEG	OKBIT	HRMN	HKHN	STDN	S
	DAYTIME				ASC.	NODE					
	DATIING				7000						
9299	0031 0119	9301R	A		010027	E156./	9299	0002	0200	9301K	A
9300	****	_			024743	E129.9	9301		8510	9301H	8
9301	0406 0454	9301R	В		043500	E103.1	9302	0518	0700	9302K	в
9302	0553 0641	9302R	8		062216	E0/6.3	9303		0841	9303A	8
9303	0740 0829	9303A	8		080932	E049.5	9304		1027	9304A	В
9304	0927 1016	9304A	8		095649	E022.6	9305		1218	9305A	В
9305	1115 1203	9305A	В		114405	W004.2	9306		1357	9306A	В
9306	1302 1350	9306A	В		133122	H031.0	9307		1543	9307A	В
9307	1449 1538	9307A	В		151838	H057.8	9308		1728	9309A	В
9308	1636 1/25	9309A	8			H084.6	9309		1914	9309A	A
9309	1824 1912	9309A	A		185311	W111.4	9310		2054	9310A	8
9310	2011 2052	9310A	В		204027	W138.3	9311	2059	2244	93114	B
9311	2158 2245	9311A	8		222744	W165.1					
	•										
						405F		N. M	s <b>-</b> sr	R - ITE	R
	NIGHTTI	ME THIR			DESC.	NODE					
	0440 0450	01040			015401	H036.7		0002	0200	9301R	A
9299	0119 0158		A B			WU63.5			0510	93018	В
9300	0311 0486		R			W090.3			0700	9382R	B
9381	0454 0508		В		0,2004				0841	9303A	В
9301	0521 0553		8		071550	W117.1		0846	1027	9304A	В
9302	0641 0658		В		0.1270				1219	9305A	8
9302	0705 0/40		В		090.507	7 H143.9		1224	1357	9306A	В
9303	0829 0839		8		0,000,			1401	1543	9307A	в
9383	0846 0927		В		105023	3 W1/0.7		1548	1728	9309A	В
9304	1016 1024		8		10,000			1/28	1914	9309A	A
9304	1031 1115 1203 1216		8		123/40	E162.4			2054	9310A	9
9305			В		1207				2244	9311A	В
9305	1224 1302 1401 1449		8		14245	6 E135.6					
9306			. 9			2 E108.8					
9307			A			9 EU82.0					
9388 9389	1729 1824 1914 2011		B			5 E055.2					
	2059 2158	-	9		_	2 EU25.3					
9310 9311	2077 2170	, 7JII4				8 E001.5					
4211											

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 5 NOVEMBER 1974

	IHIR							ESHR					
	44 5 . 4 3	INT	Н	THIR	ASC.					INT	н		
0.7.	11.5 + 6.7	ORRIT	D	GRID	DESC.					ORBIT	D		
DATA	ON OFF	*	R	COKS	TIME	LONG	DATA	0 N	OFF	+	×		
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	DEG	OHBIT	HKMN	нкии	STON	S		
	DAYIIME	THIR			ASC.	NODE							
9312					001500	E168.1	9315	0353	0550	9317A			
9313						E141.5	9316		0/51	9316A	A B		
9314	0354 0408	931/A	A			E114.5	9317		0940	9317A	R		
9315	0507 0550	9317A	A			E087.6	9318		1128	9318A	В		
9316	0655 0/43	9316A	В			E060.8	9319		1513	9319A	В		
9317	0842 0930	9317A	8			EU34.0	9320		1500	9320A	8		
9315	1029 1118	93184	В			E007.2	9321	1505	_	9321A	8		
9319	1216 1305	9319A	В			WU19.6	9322		1826	9322A			
9320	1404 1452	9320A	8			HU46.4	9323		2015	9324A	8		
9321	1551 1638	9321A	В			H073.3	9324		2155	9324A	A		
9322	1738 1824	9322A	8			W100.1	9325	2216		9325A	8		
9323	1925 2013	9324A	8			W126.9	,,,,	2210	2340	7323A	0		
9324	2113 2154	9324A	A			W153./							
9325	2300 2337	9325A	8			E1/9.5							
	NIGHTTIME	Tuto			2500								
	WIGHT I'M	. 1014			DESC.	NODE		NEMS	- sc	R - ITP	R		
9312					010834	W025.3		0354	0549	9317A	4		
9313					025551			022		9316A	В		
9314	0408 0507	9317A	A	,	044307			0000		9317A	8		
9315	0556 0655	9316A	В		063024			0945		9318A	8		
9316	0743 0/50	9316A	8		081740			1133		9319A			
9316	0800 0842	9317A	В		-			1319		9320A	8		
9317	0930 0938	9317A	8		100456	H159.4		1504		9321A	В		
9317	0945 1029	9318A	8					1645		9322A	В		
9318	1118 1127	9318A	8		115213	E173.8		1831		9324A	3		
9318	1133 1216	9319A	8					2015		9324A	8		
9319	1305 1512	9319A	8		133929	E147.0		2216		-	A		
9319	1319 1404	9320A	В					2210	2346	9325A	В		
9320	1452 1457	9320A	В		152646	E120.2							
9320	1504 1551	9321A	8			-14442							
9321	1645 1738	9322A	8		171402	F093.4							
9322	1831 1925	9324A	В		190118			**					
•9323	2015 2113	9324A	Ā		204835								
9324	2217 2300	9325A	В		223551								
9325	0017 0047	9325R	Ā		002308								
*DIFFE	RENT 6./ TIM	ES	•		3.2000								
9323	2024 2113	93244											

### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 6 NOVEMBER 1974

TATE   THE   ASC. AND   STATE   CORREST   DESC. NODE   ORBIT   DESC. NODE   ORBIT   HAMN HAMN   STDN   ST	THIR							ESMR					
11.5 + 6.7 ORBIT D GRID DESC. NUDE  DATA ON OFF + R CORR TITE LUNG ORBIT HRMN HRMN STON S LALJ HRMMSS DEG ORBIT HRMN HRMN STON S  DAYTIME THIR ASC. NUDE  9326 0047 0136 9328R A 011649 E1>2.6 9326 0116 0215 9328R A 9327 0609 0657 9329R B 04512 E099.0 9329 0504 0715 9329R B 04512 E099.0 9329 0504 0715 9329R B 065039 E072.2 9330 0721 0856 9330A B 082555 E045.4 9331 1044 1032 9331A B 101311 E018.> 9332 1131 1219 9332A B 12028 M008.3 9331 1316 1407 9333A B 124744 M03>.1 9331 1292 1417 1957 9334A B 155500 M061.9 9335 1202 1741 9335A B 19337 1840 1928 9337 A 204500 M142.4 9335 1240 1747 1930 9337A B 19933 M115.5 9337 1930 E174 1930 9337A B 1337 0227 2115 9337A A 204500 M142.4 9338 E118 2300 9338A B 2244 2258 9335A B 054457 M094.4 9338 1202 1746 9335A B 19433 M144 M09.2 9336 M657 0714 9329R B 03546 M169.2  NIGHTTIME THIR DESC. NUDE  NIGHTTIME THIR DESC.							_						
DATA			_	-	-							4	
DAYTIME THIR   ASC. NUDE     NUMBER				_									
DAYTIME THIR		1.5					-						
9326 0047 0136 9328R A 011649 E1>2.6 9326 0016 0215 9328R A 9327 9328 0422 0>10 9328R B 045122 E099.0 9329 0534 0715 9328R A 9328 0422 0>10 9328R B 045122 E099.0 9329 0534 0715 9328R B 9330 0756 0845 9330A B 085555 E045.4 9331 0741 1041 9331A B 101511 E018.5 9332 1047 1228 9332A B 120028 4008.5 9332 1234 1212 9332A B 120028 4008.5 9332 1232 1241 9335A B 12028 4008.5 9333 1232 1417 1353A B 134744 4035.1 9334 1417 1557 9334A B 153500 4061.9 9335 1623 1741 9335A B 172217 4008.7 9336 1653 1740 9335A B 172217 4008.7 9336 1641 9335A B 172217 4008.7 9336 1641 9335A B 172217 4008.7 9336 1641 1743 9335A B 172217 4008.7 9336 1247 1238 9337A B 190933 4115.5 9337 1402 2117 9337A A 204650 4146.4 9338 2214 2258 9338A B 224406 4169.2  ***NICHITIME THIR***  **DESC. NUDE***  **NICHITIME THIR***  **DESC. NUDE***  **NEMS - SCR - LIPR***  9326 0136 0213 9328R A 021024 4040.8 0016 0215 9328R B 9328 0510 0219 9328R B 054457 4094.4 9338 2118 2300 9338A B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9328 0510 0519 9328R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 9329 0557 0714 9329R B 054457 4094.4 0544 0716 9329R B 1447 1228 9332A B 1477 1258 9334A B 1477 1558 9334A B 1477 1558 9334A B 1477 1558 9335A B 1477 1930 9337A B 1477 1558 9335A B 125402 E158.4 1940 2177 9337A B 1477 1503 9337A B 1477 1503 9335A B 125402 E158.4 1940 2177 9337A B 1477 1503 9335A B 125402 E158.4 1940 2177 9337A B 12502 15024 E024.3 1417 1558 9334A B 1417 1558 9334A B 14202 1553 9335A B 125402 E158.4 1940 2177 9337A B 125024 E024.3 1417 1505 9335A B 125402 E158.4 1940 9337A B 1477 1503 9335A B 125402 E158.4 1940 9337A B 1477 1503 9335A B 125402 E158.4 1940 9337A B 125402 E158.4 1940 9335A B 125402 E158.4 1940 93	ORBIT	HRMN HRMN	SIDN	S	LALD	HRMNSS	0 F.C	ORBIT	HKMN	HRMN	STDN	S	
9326 0047 0136 9328R A 011649 E1>2.6 9326 0016 0215 9328R A 9327 9328 0422 0>10 9328R B 045122 E099.0 9329 0534 0715 9328R A 9329 0609 0657 9329R B 065899 E072.2 9330 0721 0856 9330 8 9330 0756 0845 9330 A B 082555 E045.4 9331 0901 0941 1041 9331A B 101511 E018.5 9332 1047 1228 9332A B 120028 4008.5 9332 1231 1212 9332A B 12028 4008.5 9333 1236 1417 9333A B 134744 4035.1 9333 1256 1417 9335A B 172217 4008.7 9335 1653 1740 9335A B 172217 4008.7 9335 1653 1740 9335A B 172217 4008.7 9336 1640 1728 9337A B 1336 1840 1928 9337A B 190933 H115.5 9337 1402 2117 9337A A 204650 H142.4 9338 2214 2258 9338A B 224406 H169.2    NICHITIME THIR			T.1. T.O.										
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9328 0510 0519 9328R B 054457 W094.4 0534 0716 9329R B 9328 0534 0609 9329R B 073213 W121.2 0901 1042 9331A B 9329 0657 0/14 9329R B 073213 W121.2 0901 1042 9331A B 9329 0721 0/56 9330A B 1047 1228 9332A B 9330 0845 0855 9330A B 091930 W148.0 1232 1412 9333A B 9330 0901 0944 9331A B 1417 1558 9334A B 9331 1032 1040 9331A B 110646 W1/4.9 1602 1742 9335A B 9331 1047 1131 9332A B 125402 E158.4 1930 9337A B 9332 1219 1226 9332A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 144119 E131.5 9334 1602 1653 9335A B 144119 E131.5 9335 1747 1840 9337A B 18152 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.5	9326	0136 0213	9328R	A		021024	WU40.8		0016	0215	9328H	A	
9328 0534 0609 9329R B 075213 M121.2 0901 1042 9331A B 9329 0721 0756 9330A B 075213 M121.2 0901 1042 9331A B 1047 1228 9332A B 9330 0845 0855 9330A B 091930 M148.0 1232 1412 9333A B 9330 0901 0944 9331A B 110646 M1/4.9 1602 1742 9335A B 9331 1032 1040 9331A B 110646 M1/4.9 1602 1742 9335A B 9331 1047 1131 9332A B 125402 E158.4 1930 2117 9337A B 9332 1232 1318 9333A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 181552 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9327	0326 0422	9328R	8		035740	W067.6		8528	0512	9328H	8	
9329 0657 0/14 9329R 8 075213 M121.2 0901 1042 9331A 8 9329 0721 0/56 9330A B 104/ 1228 9332A B 9330 0845 0855 9350A B 091930 M148.0 1232 1412 9333A B 9330 0901 0944 9331A B 110646 W1/4.9 1602 1742 9335A B 9331 1032 1040 9331A B 110646 W1/4.9 1602 1742 9335A B 9331 1047 1131 9332A B 125402 E158.4 1930 2117 9337A B 9332 1219 1226 9332A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 144119 E131.5 9333 1417 1505 9334A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 18155 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9328	0510 0519	9328R	8		054457	H094.4		0554	8716	9329R	8	
9329 0721 0756 9330A B 9330 0845 0855 9330A B 9330 0901 0944 9331A B 9331 1032 1040 9331A B 9331 1032 1040 9331A B 9332 1219 1226 9332A B 9332 1219 1226 9332A B 9332 1219 1226 9332A B 9333 1417 1505 9334A B 9333 1417 1505 9334A B 9333 1417 1505 9334A B 9334 1602 1653 9335A B 9335 1747 1840 9337A B 18155 E104.7 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9328	8534 0609	9329R	В					0/21	0857	9330 A	8	
9330 0845 0855 9330A B 091930 W148.0 1232 1412 9333A B 9330 0901 0944 9331A B 1417 1558 9334A B 9331 1032 1040 9331A B 110646 W1/4.9 1602 1742 9335A B 9331 1047 1131 9332A B 125402 E158.4 1930 2117 9337A B 9332 1219 1226 9332A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 2118 2300 9338A B 9333 1417 1505 9334A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 181552 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9329	0657 0/14	9329R	8		073213	W121.2		0901	1042	9331A	8	
9330 U901 0944 9331A B 9331 1032 1040 9331A B 9331 1047 1131 9332A B 9332 1219 1226 9332A B 9332 1232 1318 9333A B 9333 1417 1505 9334A B 9333 1417 1505 9334A B 9333 1417 1505 9335A B 9333 1602 1653 9335A B 9334 1602 1653 9335A B 9335 1747 1840 9337A B 9336 1930 2U27 9337A A 200308 E051-1 9337 2118 2214 9338A B 215024 EU24-3	9329	0721 0/56	9330A	В					1047	1228	9332A	В	
9331 1032 1040 9331A B 110646 W1/4.9 1602 1742 9335A B 9331 1047 1131 9332A B 1/47 1930 9337A B 9332 1219 1226 9332A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 2118 2300 9338A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 18155 E104.7 9335 1747 1840 9337A B 18155 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.5	9330	0845 0855	9330A	8		091930	W148.0		1232	1412	9333A	В	
9331 1047 1131 9332A B 9332 1219 1226 9332A B 9332 1232 1318 9333A B 9333 1417 1505 9334A B 9334 1602 1653 9335A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 18192 E077.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.5	9330	0901 0944	9331A	8					1417	1558	9334A	В	
9332 1219 1226 9332A B 125402 E158.4 1930 2117 9337A A 9332 1232 1318 9333A B 2118 2300 9338A B 9333 1417 1505 9334A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 181552 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9331	1032 1040	9331A	8		110646	H1/4.9		1602	1742	9335 A	В	
9332 1232 1318 9333A B 2118 2300 9338A B 9333 1417 1505 9334A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 18155 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9331	1047 1151	9332A	В					1/47	1930	9337A	8	
9333 1417 1505 9334A B 144119 E131.5 9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 181552 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9332	1219 1226	9332A	8		125402	E158.4		1930	2117	9337A	A	
9334 1602 1653 9335A B 162835 E104.7 9335 1747 1840 9337A B 181552 E0/7.9 9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 E024.3	9332	1232 1318	9333A	В				•	2118	2300	9338A	В	
9335 1747 1840 9337A B 181752 EU/7.9 9336 1930 2U27 9337A A 2U0308 EU51.1 9337 2118 2214 9338A B 215024 EU24.3	9333	1417 1505	9334A	В		144119	E131.5						
9336 1930 2027 9337A A 200308 E051.1 9337 2118 2214 9338A B 215024 EU24.3	9334	1602 1653	9335A	В		162835	E104.7			_			
9337 2118 2214 9338A B 215024 EU24.3	9335	1747 1840	9337A	В		181752	E0/7.9			-			
	9336	1930 2027	9337A	A		200308	E051.1						
9338 233741 W002.6	9337	2118 2214	9338A	8		215024	EU24.3						
	9338					233741	H002.6						

### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 7 NOVEMBER 1974

fhir							ESMR				
		INT	н	THIR	ASC.	A N 1)					
	11.5 + 6.7	ORBIT	Ď	GRID	DESC.					INT	4
DATA	ON OFF	+	R		TIME	LUNG	DATA	ON	OFF	ORBIT	D
ORBIT	HRMN HRMN	STON	s		HRMNSS		OKBIT		HRMN	STON	₽ S
			Ū		11.11.11.130	000	ORBIT	пкан	пкпи	3104	3
	DAYTIME	THIR			ASC.	NUDE					
4339					003122	E164.0	9342	0410	0608	9343A	
9340						E137.2	9343	_	0808	9343A	B
9341	0410 0425	9343A	A			E110.4	9344		0958	9344A	8
9342	0525 0606	9343A	A			EU83.5	9345		1141	9345A	8
9343	0711 0759	9343A	В.			E056.7	9346		1328	9346A	8
9544	0858 0946	9344A	В			E029.9	9347		1514	9347A	8
9345	1045 1154	9345A	В			E003.1	9348		1656	9348A	В
9346	1233 1321	9345A	В			W023.7	9349		1841	9349A	В
9347	1420 1508	9347A	в			W050.5	4350	1848		9351A	3
9348	1607 1655	9348A	8			WU/7.4	9351		2214	9351A	A
9349	1754 1842	9349A	В			W104.2	9352		0041	9354R	Â
4350	1942 2029	9351A	В			H131.0	.052	2240	0041	73741	^
9351	2129 2210	9351A	A			W157.8					
9352	2316 0005	9354R	A			E1/5.4					
	NIGHTTIM	E THIR			DESC.	NUDE		NEMS	s <b>-</b> sc	R - ITP	R
9339					812457	HU29.4		0410	0400	07474	
9340						H056.2		0608		9343A 9343A	A
9341	0425 0523	9343A	A			HU83.0			0959		8
9342	0612 0/11	9343A	В			H1U9.9		_		9344A	8
9343	0759 0806	9343A	8			W136.7		1003		9345A	B
9343	0815 0858	9344A	В		400403	#150#/		1146		9346A	В
9344	0946 0957	9344A	В		182119	W163.5			1515	9347A	В
9344	1003 1045	9345A	В		102117	W100*)		_	1657	9348A	В
9345	1134 1139	9345A	8		120836	E169.7		1/01	_	9349A	В
9345	1146 1233	9345A	8		120000	C107.		1848	_	9351A	В
9346	1321 1326	9346A	8		135550	E142.9		2031		9351A	A
9346	1333 1420	9347A	В		107772	6145.4		2243	0041	9354R	A
9347	1519 1607	9345A	8		154100	E116 1 .					
9348	1701 1/54	9349A	В			E116.1					
9349	1848 1942	9351A	8			EU89.2					
9350	2031 2129	9351A	-			EU62.4		_			
9351	2242 2316	9354R	A		210458						
9352	0005 0039		A		225214						
7372	6905 6094	9354R	4		003930	W018.0					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 8 NOVEMBER 1974

IHIR							ESMR					
											<b>-</b> -	
		INT	н	THIR	ASC.					INT	4	
	11.5 + 6.7	OYRIL	D	CRIO	DESC.				0.5	TIBRO	D	
DATA	ON OFF	÷	ĸ	CORR	LIME	LONG	DATA	ON	OFF	+	4	
URSIT	HRMN HKMN	STDN	3	LALD	HRMNSS	DEC	OKBIT	HRAN	нкил	STDN	S	
	DAYIIME	THIR			ASC.	NUDE						
9353					013312	E148.5	9354	0500	0357	9354R	ಕ	
9354	0251 0339	9354R	8		032028	E121.7	9355	8445	0550	9357A	8	
9355	0438 0526	4357A	В		050/45	EU94.9	9356	ひつつり	0727	9356A	A	
9356	0625 0/14	9356A	A		065501	£068.1	9357	0733	0915	9357A	A	
4357	0812 0901	9357A	A		084217	E041.3	4358	0416	1102	9358A	8	
9358	1000 1048	9358A	8		102934	E014.5	9359	1107	1246	9359A	8	
9359	1147 1235	9359A	В		121650	W012.4	9360	1250	1429	9360A	B	
9350	1334 1423	9360A	8		140406	W039.2	9361	1454	1613	9361A	8	
9361		9361A	В		155123	WU66.0	9362	1618	1759	9362A	В	
9362	1709 1/57	9362A	8		173839	WU92.8	9363	1804	1939	9363A	8	
9363	1856 1931	9363A	В		192556	W119.6	9364	1944	2126	9364A	В	
4364	2043 2125	9364A	8		211312	W146.5	9365	2152	2317	9365A	В	
9365	2231 2316	9365A	Ą		230028	W1/3.3						
	NIGHITIM	E THIR			DESC.	NOUE		NEM	s - sc	R - ITP	R	
		0.15.43	_		000447	WU44.9		0200	0357	9354R		
9353		93548	В			40/1.7			0549	9357A	9	
9354		9354R	В		041403	#U/I.			0728	9356A		
9354		9357A 9357A	В		040400	WU98.5			U915	9357A	A	
9355 9355	_	9355A	B		050120	W 0 70 0 7			1102	9358A	8	
		9356A			074436	W125.3		_	1246	9359A	В	
•9356	_		•		074030	W123.0			1429	9360A	8	
9356 9357		9357A 9357A	A		001552	W152.1			1613	9361A	8	
9357		9358A			0,0,,2	*******			1/59	9362A	8	
			8		112500	W179.0			1939	9363A	8	
9358 9358		9358A 9359A	B		112307	W1/700			2127	9364A	8	
9359		9359A	8		131025	£154.2			2317	9365A	3	
9359		9360A	В		101022	C174.5		2102	201,	,00,1	•	
9360		9361A	В		1 45 7 4 1	E127.4						
9361		9362A	В		_	E100.6		_				
9362		9363A	8			EU/3.8						
	-		В			E047.0						
9363		9364A 9365A	8		_	E020.2						
9354		7307A	ø			H006.7						
9365		MEG			207400	A V V U & /						
	ERENT 6./ TI											
4356	0/14 0/22	9356A	A									

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 9 NOVEMBER 1974

FHIR							ESMR				
		7 M T		T							
	11.5 + 6.7	INT ORBIT	Н	THIR	ASC.					INT	H
DATA	ON OFF	+ OKBII	D	CIRD	DESC.					URBIT	D
ORBIT		STDN	R	CORR	TIME	LUNG	DATA	ON	OFF	•	R
ONDI	7504 7504	,	5	LALD	HRMNSS	DFC	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME	: тніч			ASC.	NODE					
9356					004745	E159.9	9368	A 2 = 2			
9367						E133.1	9369		0444	9369R	A
9368	0352 0441	9369R	A			£106.3	9370		0643 0830	9369R	8
9369	0540 0628	9369R	8			E0/9.4	9371		1012	9370A	В
9370	0727 0815	93/0A	В			E0>2.6	9372		1156	9371A	В
9371	0714 1003	9371A	В			E025.8	9373	1202		9372A	B
9372	1101 1150	4372A	В			W001.0	9374	1351		9373A 9374A	В
9373	1249 1337	9373A	8			W027.8	9375	1556			8
9374	1436 1524	9374A	В			H054.6	9376	1718		9375A	8
9375	1623 1/10	9375A	8			HU81.5	9377	1900		9377A 9377A	В
9376	1811 1858	93/7A	3			W108.3	9378	2047		9378A	A
9377	1958 2046	9377A	A			W135.1	, , , ,	2047	2230	73/0A	9
9378	2145 2228	9378A	8			W161.9					
	MICHELL	F 7									
	NIGHTTIM	FIHIK			DESC.	NODE		NEMS	- sc	R - IIP	R
9366					014120	W033.5		****			
9367	0254 0352	9369R	A			HU60.3		0252		9369R	A
4368	0444 0540	9369R	В			W087.2		0444		9369R	8
9369	8628 8639	9369R	В		070309			0653		9370A	В
9369	0653 0/27	9370A	В					0834		9371A	В
9370	0815 0828	9370A	8		085025	W148.8		1017		9372A	8
9370	0834 0914	9371A	8					1202		9373A	8
9371	1003 1010	9371A	8		103742	W167.6		1351		9374A	8
9371	1017 1101	9372A	В		2.0	~10,10		1536		9375A	В
9372	1150 1155	9372A	8		122458	£145 4		1/19	-	9377A	8
9372	1202 1249	9373A	В		102470	2103.0		1900		9377A	A
9373	1337 1344	9373A	В		141215	F138.4		2048	2334	9378A	8
9373	1351 1456	9374A	В			-100+0					
9374	1524 1529	9374A	В		155931	F112.0					
9374	1536 1623	9375A	8			-11510					
9375	1719 1811	9377A	9		174647	E0.85.2					
4376	1900 1958	9377A	Ā		193484						
9377	2048 2145	9378A	8		212120						
4378	<del>-</del> -		•		230837						
						C U U U V /					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 10 NOVEMBER 1974

FHIR						ESAR					
		INT	н	THIR	ASC.	AND			•	INT	 H
	11.5 + 6.7	ORRIT	0	GRID	DESC.	NOUE				ORRIT	D
DATA	ON 0FF	•	R	COKK	TIME	LONG	DATA	UN	OFF	•	ą
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	υEG	ORBIT	HRMN	HRMN	STDN	s
										_	_
	DAYTIME	THIR			ASC.	NODE					
9379					000216	E1/1.3	9380	0017	0215	9381R	A
9380	0120 0208	9381R	A			E144.5	9381		0414	9381K	В
9381	0307 0355	9381R	В		-	E117.7	9382		0604	9382R	9
9382	0454 0>43	9382R	В			E090.8	9383		0742	9383A	8
9383	0641 0730	9383A	8		_	E064.0	9384		0926	9384A	8
9384	0829 0917	9384A	В			E037.2	9385		1118	9385A	В
4385	1016 1104	9385A	8			E010.4	9386		1302	9386A	В
9386	1203 1252	9386A	В		_	W016.4	9387		1446	9387A	8
9387	1350 1439	9387A	8		_	HU43.3	9388	_	1629	9388A	
9388	1538 1626	9388A	В			H0/0.1	9389	-	1815		8
9389	1725 1813	9389A	8			HU96.9	9390		2002		9
9390	1912 2000	9391A	8			W123.7	9391		2146		В
9371	2100 2145		Ā			W150.5	9392		2335	9391A	A
9392	2247 2333	9392A	8			W177.4	7372	2140	2335	9392A	8
,,,,	2247 2330	70724	ט		201040	#1//• <del>4</del>					
	NIGHTTIM	E THIR			DESC.	NUDE		NEH	s - sc	R - [TP	'R
9379	0021 0120	9381R	A		005551	W022.1		0016	0215	9351H	A
9380	0208 0213	9381R	A		-	WU48.9		_	0414	9381H	В
9380	0215 0307	9381R	В					-	0604	9382R	9
9581	0355 0413	9381R	В		043024	W0/5.8			0.742	9383A	В
9381	0420 0454	9382R	8						0927	9384A	8
9382	0543 0602	9382R	В		061740	W102.6			1119	9385A	В
9382	0609 0641	9383A	В						1302	9386A	8
9383	0730 0/41	9383A	8		080456	W129.4			1446	9387A	8
9383	0747 0829	9384A	В		********				1629	9388A	8
9384	0917 0925	9384A	В		095213	W156.2			1815	9389A	8
9384	0932 1016	9385A	В		0,7210	*17002		_	5005	9391A	
9385	1104 1116	9385A	В		111020	E1/7.0			2147		В
9385	1124 1203	9386A	8		110,5	C1//00			2334		A
9386	1252 1300	9386A	В		132645	E150.1		5140	2334	9392A	
9356	1307 1350	9387A	8		102047	C47001					
9387	1451 1538	9388A	-		151400	E123.3					
9388	1634 1/25		В								
9389	1820 1912	93894	В			EU96.5					
9390	2002 2100	9391A	8			E069.7					
9391		9391A	A			E042.9					
	2148 2247	9392A	В			E016.1					
9392					001024	W010.8					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 11 NOVEMBER 1974

	THIR					ESMR					
		INT		F1HT	ASC.	4 N O				INT	н
	11.5 + 6.7	ORBIT		GRID	DESC.					ORBIT	D
DATA	ON OFF	+	Ř		TIME	LUNG	DATA	UN	OFF	+	ĸ
ORBIT	HRMN HRMN		s		HRMNSS		ORBIT		HRMN	STDN	ŝ
ORBIT	ARIO ARO	,3,0,		ENCS	1111111133	DEG	0.7511	7,4,114	117.114	31011	3
	DAYTIME	THIR			ASC.	NUDE					
9593					010405	£155.8	9395	0333	0532	9397A	A
9394					025121	E129.0	9397	0541	0840	9397A	В
9395	0409 0457	4397A	A		043838	E102.2	9398	0548	1030	9398A	ㅂ
9396					062554	E0/5.4	9399	1035	1214	9399A	8
9397	0743 0832	9397A	В.		081310	E048.6	9400	1218	1403	9400A	8
4378	0930 1019	4398A	В		100027	E021./	9401	1447	1547	9401A	В
9399	1118 1206	9399A	8		114743	WU05.1	9402	1>>0	1/32	9403A	8
9400	1305 1353	9400A	8		133459	W031.9	9403	1/53	1917	9403A	A
9401	1452 1541	9401A	Ð		152216	W058.7	9404	1+18	2103	9404A	В
9402	1639 1/28	9403A	8		170932	W085.6	9405	2108	2247	9405A	В
9403	1827 1915	9403A	A		185648	W112.4					
9404	2014 2101	9404A	8		204405	W139.2					
9405	2201 2245	9405▲	8		223121	W166.0					
	NIGHTTIM	E THIR			DESC.	NUDE		NEM:	s - sc	R - ITP	'R
9393					015240	WU37.6		0344	0532	9397A	A
9394	0324 0409	9397A	A		-	WU64.4			0840	9397A	8
9395	0457 0530	9397A	Â			W091.2		_	1030	9398A	
9396	0644 0743	9397A	B		_	W118.0			1212	9399A	В
9397	0832 0838	9397A	В			W144.9		_	1402	9400A	8 8
9397	0849 0930	9398A	В		070040	-1			1546	9401A	8
9378	1019 1028	9398A	. 8		185402	W1/1.7			1732	9403A	В
9398	1035 1118	9399A	В		102402	41/10/			1917	9403A	A
9399	1206 1211	9399A	8		124118	E161.5			2103		
9399	1218 1305	9400A	8		124110	5101.7			2247	9405A	8 B
9400	1353 1400	9400A	В		142835	E154.7		2100	2241	74074	D
9400	1407 1452	9401A	В		142037	C13747					
9401	1550 1639	9403A	В		161551	E10/.9					
9402	1733 1827	9403A	A			EU81.0					
9403	1917 2014		8		_	E054.2					
9404	2108 2201	9405A	В		-	E027.4					
9485	-100	790 2 A	0		_						
7787					23243/	E000.6					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 12 NOVEMBER 1974

THIR							ESMR					
	44 5 . 4 7	INT	Н	THIR	ASC.					INT	H	
	11.5 + 6.7 ON OFF	ORBIT	D	GRID	DESC.		S		055	ORBIT	D	
DATA	- · · · · · · · · · · · · · · · · · · ·		R	COHE	TIME	LONG	DATA	UN	OFF	+	R	
ORBIT	HRMN HRMN	STDN	S	FVF)	HRMNSS	DEG	08817	HRMN	HRMN	STON	S	
	DAYFIME	THIR			ASC.	NODE						
9406					001838	E167.2	9409	0358	0 > 5 6	9411A	A	
9407					020554	E140.4	9410	0557	0756	9410A	В	
9408	0357 0411	94114	A		03>510	E113.6	9411	0805	0943	9411A	B	
9489	0510 0555	9411A	A		054027	E086.7	9412	0948	1130	9412A	8	
9410	0658 0/46	9410A	B		0/2/43	E059.9	9413	1136	1317	9413A	В	
9411	0845 0933	9411A	В		091459	E033.1	9414	1322	1501	9414A	8	
9412	1032 1121	9412A	В			E006.3	9415	1508	1645	94 <u>1</u> 5A	в	
9413		9413A	8		124932	W020.6	9416	1652	1829	9416A	8	
9414	1407 1455	94144	В		143648	WU47.4	9417	1854	2015	9418A	В	
9415		9415A	В		162405	WU74.2	9418	2019	2200	9418A	A	
9416	1741 1827	9416A	В		181121	W101.0	9419	2210	2350	94194	B	
9417		9417A	В			W127.8						
9418		9418A	В			H154.6						
9419	2303 2349	9419A	8		233310	E1/8.6						
	NIGHTIM	E THIR			DESC.	NUDE				R - ITP		
9486					011213	W026.2		0358	0556	9411A	A	
9407						W053.0			0756	9410A	8	
9408	0411 0510	9411A	A			W079.9		0505	0943	9411A	В	
9409	0559 0658	9410A	8		063402	W106.7		0948	1131	9412A	В	
9410	0746 0/54	9410A	В		082119	W133.5		1136	1317	9413A	В	
9410	0805 0845	9411A	В					1322	1501	9414A	8	
9411	0933 0941	9411A	Ð		100835	W160.3		1586	1647	9415A	8	
9411	0948 1032	9412A	8					1652	1829	9416A	8	
9412	1121 1129	9412A	в		115551	E1/2.9		1854	2015	9417A	8	
9412		9413A	В					2019	2200	9418A	В	
9413	1308 1316	9413A	8		134308	E146.0		2204	2350	9419A	8	
9413	1322 1407	9414A	9									
9414		9415A	8		153024	E119.2						
9415		9416A	8		171740	E092.4						
9416		9417A	В		190457	E065.6						
9417	2019 2116	9418A	8		205213	E038.8						
9418	2204 2303	9419A	В			E012.0						
9419	0000 00>0	9422R	A		002646	W014.9						

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 13 NOVEMBER 1974

	THIR							Ε	SMR		
	11.5 + 6.7	INT		THIR	ASC.					INT	Н
DATA	ON OFF			GRID	DESC.					ORBIT	D
ORBIT		STDN	R		TIME	LONG	DATA	ON	OFF	•	R
ORBII	папи папи	אטוכ	3	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME	THIR			ASC.	NODE					
9420	0050 0139	9422R	A		012027	E151.7	9420	2354	0148	9422R	
9421	0237 0326	9421R	8			E124.9	9421		0346		A
9422	0425 0513	9422R	В			EU98.1	9422		0533		8
9423	0612 0700	9423A	8			E071.3	9423	0543		9423A	В
9424	0759 0848	9424A	В			E044.5	9424	0/20		9424A	8
9425	0947 1035	9425A	В			E017.7	9425	0903		9425A	В
9426	1134 1222	9426A	В			H009.2	9426	1050		9426A	В
9427	1321 1410	9427A	В			WU36.0	9427	1234		9427A	8
9428	1508 1557	9428A	8			W062.8	9428	1421		9428A	8
9429	1656 1/44	9430A	8			W089.7		1606	_	9430A	8
9430	1843 1926	9430A	A			W116.5	9430	1748		9430A	A
9431	2030 2118	9431A	В			W143.3	9431	1958		9431A	8
9432	2217 2302	9432A	В			W1/0.1	9432	2124		9432A	8
									,	, 402A	U
	NIGHTIIM	E THIR			DESC.	NODE		NEMS	- Sc	R - ITP	R
9420	0139 0147	9422R	A		021402	H041.7		2350	0148	9422R	A
9420	0148 0237	9421R	В					0148		9421R	В
9421	0326 0345	9421R	В		040119	W068.5		0355		9422R	В
9421	0355 0425	9422R	8					0543	_	9423A	В
9422	0513 0530	9422R	8		054835	W045.3		0720		9424A	В
9422	0537 0612	9423A	B					8904		9425A	В
9423	0700 0/13	9423A	8		073551	W122.1		10>0		9426A	В
9423	0719 0/59	9424A	8					1234		9427A	В
9424	9848 0857	94244	В		092308	W149.8		1422	_	9428A	В
9424	0904 0947	9425A	В					1606		9430A	8
9425	1050 1134	9426A	В					1938	_	9431A	В
9426	1222 1227	9426A	В		125741	E157.4		2124	_	9432A	В
9425	1035 1043	9425A	В		111024	W1/5.8		1748		9430A	Ā
9425	1050 1134	9426A	В					1938		9431A	В
*9426	1222 1227	9426A	8		125741	E 57.4		2124		9432A	В
9426	1234 1521	9427A	В							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U
9427	1422 1508	9428A	8		144457	E130.6		•	•		
9428	1606 1656	9430A	8		163213	E103.8					
9429	1748 1843	9430A	A			E077.0				,	
9430	1938 2030	9431A	В			E050.1					
9431	2124 2217	9432A	В			E023.3					
9432						H003.5					
*NO 6.	7 DATA										

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 14 NOVEMBER 1974

	THIR							E	SMR		
		INT		FIHT	ASC.	ANII			•••••	INT	
	11.5 + 6.7	ORBIT	Ď	GRID	DESC.					ORBIT	D
DATA	ON OFF	+	ĸ	CORR	TIME	LUNG	DATA	ON	OFF	+	R
ORBIT	HRMN HKMN	STON	s	LALD	HRMNSS		ORBIT		HRMN	STDN	S
ORBIT	AKTIO TAXIO	3104	3	LALJ	nam 33	DEG	ORDII	***************************************	111(-1-1	37517	3
	DAYTIME	THIR			ASC.	NODE					
9433					003459	£163.1	9436	0414	0612	9437A	A
9434					022216	E136.3	9437	0612	0812	9437A	В
9435	0414 0428	9437A	A		040932	E109.5	9438	0818	1000	9438A	В
9436	0526 0611	9437A	A		055648	E082.7	9439	1005	1150	9439A	8
9437	0714 0502	9437A	В		074405	E055.8	9440	1156	1334	9440A	В
9438	0901 0949	9438A	В		093121	E029.0	9441	1559	1718	9441A	8
9439	1048 1157	9439A	В		111838	E002.2	9442	1522	1703	9443A	В
9440	1236 1324	9440A	В		130554	W024.7	9443	1703	1843	9443A	A
9441	1423 1511	9441A	В		145310	W051.5	9444	1851	2033	9444A	В
9442	1610 1659	9443A	В		164027	W0/8.3	9445	2038	2217	9445A	В
9443	1757 1540	9443A	A		182743	W105.1					
9444	1945 2031	9444A	В		201459	W131.9					
9445	2132 2215	9445A	8		220216	H158.8					
9446					234932	E174.5					
	NIGHTTIM	E THIR			OESC.	NUDE		NEH	s <b>-</b> sc	R - ITP	'R
9433					012835	W030.3		0414	0612	9437A	۸.
9434						H057.1			0812	9437A	В
9435		9437A	A			HU84.8			1000	9438A	В
9436		9437A	8			W110.8			1150	9439A	8
9437		9437A	a			W137.6			1335	9448A	8
9437		9438A	В					1559	1517	9441A	В
9438		9438A	8		102457	W164.4			1704	9443A	8
9438		9439A	В					1704	1842	9443A	A
9439	_	9439A	8		121213	£168.8		1851	2033	9444A	В
9439		9440A	В					2038	2217	9445A	8
9440		9440A	В		135930	E142.0					
9440	-	9441A	В		_						
9441		9443A	В		154646	E115.1		**			
9442			Ā		_	E088.3					
9443			B		-	E061.5					
9444	_	9445A	В			EU34.7					
9445		- · · · · · · · · · · · · · · · · · · ·	_			E007.9					
9446					004308	W019.0					

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 15 NOVEMBER 1974

	i H I i	٠						ε	SMR		
		INT	н	THIR	ASC.	AND				****	
	11.5 + 6.7	ORBIT	D	GRID		NUDE				INT	H
DATA	ON OFF	. +	R	CORR	TIME	LUNG	DATA	UN	OFF	ORBIT	0
ORBIT	HRMN HKMN	STON	S	LALD	HRMNSS		ORBIT	HRMN		+ STON	R
						744	ONDII	aran	пком	STON	S
	DAYTIME	ETHIR			ASC.	NODE					
9447	0141 0155	9451A	A		013648	E147.7	9448	0142	0.340	9451A	
9448	0254 0339	9451A	A			E120.8	9450	0528		9450A	B
9449						EU94.0	9451	0/35		9451A	8
9450	0628 0/17	9450A	В		065838	E067.2	9452	0920		9452A	8
9451	0815 0904	9451A	Ð		084554	E040.4	9453	1106		9453A	8
9452	1003 1051	9452A	B		103310	E013.6	9454	1252		9454A	8
9453	1150 1239	9453A	В		122027	W013.3	9455	1440		9455A	8
9454	1337 1426	9454A	В		140743	W040.1	9456	1625	_	9457A	В
9455	1525 1613	9455A	8		155459	W066.9	9457	1803	-	9457A	Ā
9456	1712 1800	9457A	В		174216	W093.8	9458	1952		9458A	В
9457	1859 1938	9457A	A		192952	W120.6	9459	2140		9459A	8
*9458	2046 2132	9458A	В		211648	H147.4					
*9459	2234 2301	9459A	8		230405	W174.2					
•9459	2308 2319	9457A	8								
	RENT 6.7 TI										
9458	2052 2130	9458A	В								
9459	2234 2319	94591	В								
	NIGHTIIM	E THIR			DESC.	NODE"		NEMS	- sc	R - ITP	R
9447	0155 0254	9451A	A		023024	W045.8					
9448			7.			WU/2.6		0142		9451A	A
9449	0529 8628	9450A	8			H099.4		0528	_	9450A	8
9450	0717 0726	9450A	R			W126.2		0/35		9451A	8
9450	0734 0815	9451A	8		0.7213	*150.5		0920		9452A	В
9451	0904 0914	9451A	В		04640	W153.0		1106		9453A	8
9451	0920 1003	9452A	В		0,0,00	#173.0		1253	_	9454A	В
9452	1051 1059	9452A	8		112646	W1/9.9		1439		9455A	8
9452	1106 1150	9453A	8		112040	W1/707		1624		9457A	В
9453	1253 1337	9454A	8		131403	E161 1		1803		9457A	A
9454	1439 1525	9455A	B		150119			1952		9458A	В
9455	1624 1/12	9457A	В		164835			2140	2321	9459A	В
9456	1803 1859	9457A	Ā		183552						
*9457	1953 2046	9458A	В		202308						
9458	2140 2234	9459A	В		221024						
9459			•		235/41						
*NO 6.	7 DATA				-42,41						

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 16 NOVEMBER 1974

	THIR							_	SMR		
										INT	
		INT	н	THIR	ASC. A					ORBIT	D
	11.5 + 6.7	ORBIT	Ð	GRID	DESC.				056		_
DATA	ON OFF	•	ĸ	COHS	TIME	LUNG	DATA	)N	OFF	+ Stdn	₹ S
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	υEG	ORBIT	HKMN	אראת	3104	3
	DAYFIME	THIR			ASC.	NUDE					
					005121	E159.0	9461	0103	0115	9462R	A
9460	0208 0257	9462R	A			E132.2	9461	0140	0501	9462R	A
9461 9462	0355 0444	94628	В			E105.4	9462	0301	0408	9462R	8
9463	0543 0631	9463R	В			EU/8.6	9462	0421	0500	9462R	В
9464	0730 0818	9464A	В			E051.7	9463	りづりも	0652	9463R	В
9455	0917 1006	9465A	В		094743	EU24.9	9464	0657	0828	9464A	В
•9466	1105 1153	9466A	B		113459	.₩001.9	9465	0833	1017	9465A	8
9467	1252 1340	9467A	В			H028.8	9466	1021	1206	9466A	8
9468	1439 1528	9468A	В		_	H055.6	9467	1212	1349	9467A	В
9469	1626 1/15	9470A	В		165648	W082.4	9468	1354	1535	9468A	8
9470	1514 1901	9470A	Ā			W109.2	9469	1538	1/20	9470A	8
9471	2001 2047	94/1A	8			W136.0	9470	1/20	1903	9470A	A
9472	2148 2252	9472A	В			W162.8	9471	1904	2049	9471A	8
74/6	2140 2202		_				9472	2054	2234	9472A	8
*DIFFE	RENT 6./ TI	MES									
9466	1112 1153	9466A	В								
	NIGHTTI	4F THIR			DESC.	NUDE		NEM	s - s	CR - ITE	R
	141011411										
9450	0139 0208	9462R	A		014457	W054.4		0103	0301	9462K	A
9461			В		033214	W061.2		0301	0500		
9462			В		051930	W858.0		0508	8651	9463R	В
9462			8					3656	0829	94644	8
9463		9463R	В		070646	W114.9		0833	1017	9465A	8
9463		9464A	В					1022	1206	9466A	2
9464	_		В		085403	H141.7		1212	1349	9467A	₿
9464			8					1554	1534		8
9465	*		8		104119	W168.5		1539	1720		₿
•9465	<del>-</del>		ы					1/20	1903		A
9466			В		122839	E164.7		_	2049		
9466								2054	2234	94721	В
9467					141552	£137.9					
9467											
9468					160308	E111.0					
9469	-					1 E084.2					
9470					193741	L E057.4					
9471					212457	7 E030.6					
9472					23121	4 EU03.8					
_	ERENT 6./ T	IMES									
9465			. 8	1							

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 17 NOVEMBER 1974

	THIR							6	SMR		
		INT	н	THIR	ASC.					INT	н
	11.5 + 6.7	ORBIT	Ð	GRID	DESC.					ORBIT	D
DATA	ON OFF		ĸ	COKS	TIME	LUNG	DATA	UN	OFF	+	R
ORBIT	HRMN HKMN	STON	S	LALJ	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME	THIR			ASC.	NUDE					
9473					000603	E1/0.3	9474	0019	0218	9475R	A
9474	0123 0211	9475R	A		015319	E143.5	9475		0418	9475R	В
9475	0310 0358	9475R	Ð			E116.7	9476		0607	9476R	8
9476	0457 0546	9476R	В		052752	EU89.9	9477		0747	9477A	8
9477	0644 0753	9477A	В		071509	E063.0	9478	0751	0932	9478A	8
9478	0832 0920	9475A	В		090225	E036.2	9479	0436	_	9479A	В
9479	1019 1107	9479A	В		104941	E009.4	9480	1120		9480A	8
9480	1206 1255	9480A	8		123658	WU17.4	9481	1315		9481A	В
9481	1354 1442	9481A	В		142414	H044.2	9482	1453	_	9432A	B
9482	1541 1629	9482A	В		161131	WU/1.1	9483	1639	_	9483A	B
9483	1728 1817	9483A	В		175847	W897.9	9484	1825		9484A	В
9484	1915 2001	9484A	8		194603	W124.7	9485	2007		9485A	В
9485	2103 2149	9485A	8		213320	W151.5	9486	2176		9486A	В
9486	2250 2336	9486A	В		232036	W1/8.3				, , , , , , , , , , , , , , , , , , ,	•
	NIGHFFIM	_			DESC.			NEMS	s - sc	R - ITP	Ř
9473	0024 0123	9475R	A			W023.1		0020	0218	9475R	4
9474	0218 0310	9475R	8			WU49.9		0218	0418	9475R	8
9475	0358 0415	9475R	В		043412	W0/6.7		0424	0606	9476R	8
9475	0425 0457	9476R	В					0611	0747	9477A	В
9476	0546 0604	9475R	8		062128	W103.5		0/52	0432	9478A	8
9476	0611 0644	9477A	8					0437	1116	9479A	В
9477	0733 0/45	94774	Ħ		080845	H130.4		1120	1510	9480A	8
9477	0752 0832	9475A	. В					1515	1449	9481A	В
9478	0920 0930	94/5A	B		095601	W15/•2		1453	1634	9482A	8
9478	0954 1019	94794	8					1659	1821	9483A	8
9479	1107 1114	9479A	8		114318	E1/6.0		1826	2003	9484A	8
9479	1120 1206	9480A	В					2007	2152	9485A	В
9480	1255 1309	9480A	В		133054	E149.2		2156	2337	9486A	8
9480	1315 1354	9481A	В								
9451	1453 1541	9482A	В		151750	E122.4					
9482	1639 1/28	9483A	В		170507	E095.6					
9483	1825 1915	9484A	В			E068.7					
9484	2007 2103	9485A	В		203940	E041.9					
9485	2157 2250	9486A	В		222656	E015.1					
9486	0007 0037	9489R	A		001412	W011./					
	RENT 6.7 TI										
9478	0937 1019	9479A	В								

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 18 NOVEMBER 1974

	гнія							E	SMR		
DATA	11.5 + 6.7 ON OFF	INT ORBIT +	H D R	THIR GRID CORR	ASC. A DESC. TIME		DATA	0 N	OFF	INT ORBIT +	н D R
ORBIT	HRMN HRMN	STDN	S	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
	DAYTIME	THIR			ASC.	NODE					
9487	0037 0126	94898	A		010/53	E154.8	9487	0008	0206	9489R	A
9488					025509	E128.0	9489	0318	0517	9489K	8
9489	0412 0500	9489R	8		044225	E101.2	9490	0524	0714	9491A	8
9490	0559 0647	9491A	В		062942	E074.4	9492	りもうう	1034	9492A	В
9491	U746 0835	9491A	A		U81658	E047.6	9493	_	1225	9493A	В
9492	0933 1022	9492A	В		100415	E020.8	9494		1405	94944	8
9493		9443A	В			W006.1	9495	-	1549	9495A	В
9494	1308 1356	9494A	В		133847	W032.9	9496		1733	9496A	В
9475	1455 1544	9495A	8		152604	W059.7	9497		1915	9497A	В
9496		9496A	В			HU86.5	9498	_	2101	9498A	9
9497	1830 1914	9497A	В			W113.3	9499	2107	2252	94994	8
9498		9498A	В			H140.2					
9499	2204 2249	94994	В		223509	W167.0					
	NIGHTTI	E THIR			DESC.	NODE		NEM	s - sc	R - ITE	R
9487	0126 0203	9489R	A		020129	WU38.5		0008	0206	9489R	A
9488		9489R	8		034845	W065.4		0318	0518	9489R	B
9489		9489R	В		053602	W092.2		0524	0714	9491A	8
9489	_	9491A	В					0855	1034	9492A	8
9490	0647 0/12	9491A	8		072318	W119.0		1059	1224	9493A	8
9490	0714 0746	9491A	A					1230	1404	94944	В
9491	0835 0844	9491A	A		091035	W145.8		1409	1549	9495A	8
9491	0855 0433	9492A	В					1774	1733	9496A	В
9492	1022 1032	9492A	В		105751	W172.6		1/38	1916	3497A	8
9492	1039 1121	9493A	В					1920	2102	9498A	8
9493	1209 1223	9493A	8		124507	E160.6		2107	2251	9499A	8
9493	1229 1508	9494A	В								
9494	1356 1402	9494A	8		145224	E133./	•				
9494		9495A	8								
9495		9496A	В		161940	E106.9					
9496		9497A	8			E080.1					
9497	-	9498A	В		195413	E053.3					
9498		9499A	В		214129	E026.5					
9499					232846	H000.4					
- · • •											

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 19 NOVEMBER 1974

	THIR	<b>!</b>						6	SHR		
		INT	н	THIR	ASC.	AND			•••••		
	11.5 + 6.7	ORBIT	D	GRID	DESC.					INT	H
DATA	ON OFF	•	R	CORR	TIME	LONG	DATA	UN	OFF	ORBIT	0
ORBIT	HRMN HKMN	STDN	S	LALD	HRMNSS	DEG	ORBIT		HRMN	STON	R S
							ONDIT	пли	пплп	3194	3
	DAYTIME	THIR			ASC.	NUDE					
9500					002226	E166.2	9503	0402	0600	9504A	A
9501					020942	E139.4	9504	0600		9504A	8
9502					035659	E112.6	9505	0806		9505A	8
9503	0513 0559	9504A	A		054415	EU85.7	9506	0958		9506A	9
9504	0701 0/49	9504A	В			E058.9	9507		1322	9507A	8
9505	0848 0936	9505A	Ð		091848	E032.1	4508	1327	_	9508A	В
9506	1035 1124	9506A	8		110604	E005.3	9509	1>10	-	9509A	В
9507	1222 1311	9507A	В		125320	WU21.5	9510	1655		9510A	В
9508	1410 1458	9508A	В			H048.3	9511	1857	_	9511A	8
9509	1557 1646	9509A	В		162/53	W0/5.2	9512	2025		9512A	8
9510	1744 1851	9510A	8		181510	W102.0					U
9511	1932 2018	9511A	В		200226	W128.8					
9512	2119 2203	9512A	В		214943	¥155.6					
9513					233659	E177.6					
	NIGHTTIM	E THIR			DESC.	Nanc					_
	_				5200	HODE		NEMS	- SC	R - IIP	R
9500					011602	W027.2		0402	0600	9504A	A
9501					030319	H054.0		0600		9504A	B
9502	0415 0513	9504A	A		045035	W080.8		0806		9505A	В
9503	0602 0/01	9504A	8		063751	H107.6		0958		9506A	8
*9504	0749 0/59	9504A	В		082508			1144		9507A	8
9504	0805 0848	9505A	6					1327		9508A	В
9505	<b>0</b> 936 0450	9505A	43		101224	W161.3		1511		9509A	8
9503	0957 1035	9506A	В					1655	_	95'10A	В
9506	1124 1137	9506A	8		115941	E1/1.9		1837	_	9511A	8
9586	1144 1222	9507A	В					2025		9512A	В
9507	1311 1320	9507A	В		134657	E145.1				,,,,,,,	В
9507	1327 1410	9508A	В			_					
9508	1511 1557	9509A	В		153413	E118.3					
9509	1655 1/44	9510A	В		172130						
9518	1837 1432	9511A	В		190846						
9511	2025 2119	9512A	В		205603						
9512					224319						
9513	0049 0054	9516R	A		003035						
	RENT 6.7 TI	MES									
9504	0749 0756	9504A	В								

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 20 NOVEMBER 1974

	THIR							Ε	SMR		
										INT	 -
		INT	Н	THIR	ASC. A					ORBIT	υ
	11.5 + 6.7	ORHIT	D	CIRC	DESC.		5.5.	// 54	OFF	+	ر بر
DATA	ON OFF	+	ĸ	CORR	TIME	LUNG	DATA	UN		STON	Š
URBIT	HRMN HRMN	STDY	S	LALD	HRMNSS	DEG	ORBIT	HRMN	пкли	3104	3
	DAYTIME	THIR			ASC.	NODE					
9514	0054 0142	9515k	A		012415	£150.7	9514			9516K	A
9515					031132	E123.9	9516		0534	9516R	ㅂ
9516	0428 0517	9516R	в		045848	E047.1	9517	0542	0/10	9518A	В
9517	•	9518A	8		064605	E070.3	9518	0/10	0905	9518A	A
9518	0803 0851	9518A	A		083321	EU43.5	9519		1046	9519A	В
9519	-	9519A	В		102037	E016.7	9520	1071	1238	9520A	ㅂ
9520	1137 1226	9520A	8		120754	W010.2	9521	1243	1420	95214	В
9521		9521A	В		135510	H037.0	9522	1425	1605	9522A	В
9522		9522A	В		154227	W063.8	9523	1610	1749	9523A	3
9523		9523A	9		172943	H090.6	9524	1/55	1936	9525▲	8
9524					191659	W11/.4	9525	1957	2122	9525A	A
9525		9525A	A			H144.3	9526	2123	2306	9526A	8
9526	-	9526A	В		225132	W1/1.1					
	NIGHITI	4E THIR			DESC.	NUDE				R - ITP	
9514	0142 0241	9516R	A		021/52	W042.6				9516R	A
9515	_	9516R	В			HU69.5		0335	0534	9516R	в
9516		_	В			HU96.3		0542	0711	9518A	В
9516		9518A	9		0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0/10	0906	9518A	4
9517		9518A	Ā		073941	W123.1		0906	1046	9519A	В
_		9518A	Â			W149.9		1052	1238	9520A	В
9518		9519A	9		***			1243	1420	9521A	В
9518 9519		9519A	8		111414	W1/6.7		1425	1605	9522A	8
			В					1610	1749	9523A	8
9519			В		130130	E156.4			1936	9525A	В
9520			8		10010			2123	2307	9526A	8
9520			8		144847	E129.6			-		
9521			8			S E102.8					
9522		772JA	0			EU/6.0					
9523		9525A				E049.2					
9524			A B			E022.4					
9529		9526A	•			9 4004.5					
9526	•				207701	,					

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 21 NOVEMBER 1974

	THIR								ESMR		
		INT		Tuto		0					
	11.5 + 6.7	ORBIT	H	FIHT	ASC.					INT	н
DATA	ON OFF	+	R	GRID	DESC.			_		ORBIT	D
ORBIT	HRMN HRMN	STON	S		TIME	LONG	DATA	ON	OFF	•	₹
GRU1.	TROOT HATON		3	LALJ	HRMNSS	DEG	ORBIT	HKMN	HRMN	STON	s
	DAYTIME	THIR			ASC.	NODE		,			
9527					003849	E162.1	9530	0449		000	
9528						£135.3	9531	_	0616	9531A	A
9529	0417 0431	9531A	A			£108.5	9532		0815	9531A	ㅂ
9530	0530 0615	9531A	A			E081.6	9533		1004	9532A	9
9531	0717 0806	9531A	8			E054.8	9534		1150 1340	9533A	В
9532	0904 0953	9532A	В			EU28.0	9535		1521	9534A	8
9533	1052 1140	95334	В			£001.2	9536		1705	9535A	В
9534	1239 1327	9534A	B			HU25.6	9537			9536A	В
9535	1426 1515	9535A	8			W052.4	9538		1852 2040	9537A	В
9536	1613 1/02	9536A	В			WU/9.3	9539			9538A	ß
9537	1801 1849	9537A	В			W106.1	7737	2047	2221	9539A	В
9538	1948 2036	9538A	В			W132.9					
9539	2135 2219	9539A	В			W159.7					
9540						E173.5					
	NIGHTIM	ETHIR			DESC.	NUDE		NEMS	s - sc	R - ITP	R
9527					013225	H031.3		0418	0616	9531A	A
9528					031942	W058.1		0616		9531A	8
9529	0431 0530	9531A	A		050658	HU84.9		0824		9532A	8
9530	0618 0/17	9531A	В		065414	₩111.7		1009	_	9533A	В
9531	0806 0814	9531A	В		084131	W138.6		1155		9534A	В
9531	0814 0904	9532A	8					1545		9535A	9
9532	0953 1001	9532A	В		102847	H165.4		1526		9536A	В
9532	1009 1052	9533A	В					1/11		9537A	В
9533	1140 1148	9533A	В		121604	E167.8		1556		9538A	8
9533	1155 1239	9534A	В					2045		9539A	В
9534	1345 1426	9535A	В		140320	E141.0					•
9535	1526 1613	9536A	В		155036	E114.2					
9536	1711 1801	9537A	8		173753	E087.5	•				
9537	1857 1948	9538A	В		192509	E060.5					
9538	2046 2135	9539A	8		211226	E033.7					
9539					225942	E006.9					
9540					004658	W019.9					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 22 NOVEMBER 1974

	THIR					•		Ε	SHR		
		INT	Н.	THIR	ASC.	UNA				INT	4
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D
DATA	ON OFF	•	R	COK?	TIME	LUNG	DATA	UN	UFF	•	4
ORBIT	HRMN HRMN	STDN	S	LALD	HRMNSS	DEC	ORBIT	HHMN	начи	STDN	S
	DAYIIME	THIR			ASC.	NODE					
9541					014038	E146.7	9543	0448	0607	9545A	A
9542					032/55	E119.8	9545	0/17	0917	9545A	В
9543	0444 0553	9545A	A			E093.0	9546	0425	1110	9546A	В
9544						E066.2	9547	-	1251	9547A	8
9545	0819 0407	9545A	8			EU39.4	9548		1438	9548A	8
*9546	1006 1055	9546A	В		-	EU12.6	9549		1620	9549A	8
9547	1153 1242	9547A	В			WU14.3	9550	_	1807	9550A	8
9548	1341 1429	9548A	В			H041.1	9551		1948	9551A	8
9549	1528 1616	9549A	В		-	H067.9	9552		2139	9552A	8
9550	1715 1804	9550A	В		_	W094.7	9553	2146	2325	9553A	8
9551		9551A	В			W121.5					
9552 9553	_	9552A 9553A	В		-	W148.4					
_	223/ 2323 ERENT 6./ TI		В		230/74	W1/5.2					
9546		9546A	В								
	NIGHTTIM	•			DESC.	NODE		NEM		R + ITP	• •
	MIGHTIN	IL THIN			DE30*	NODE		****			
9541					023415	H046.7		0408	0607	9545A	A
9542	8408 0444	9545A	A		042131	W0/3.6		0/17	0916	9545A	В
9543	0533 0605	9545A	A		060848	W100.4		0425	1110	9546A	В
9544	0720 0819	9545A	В		075604	W127.2		1115	1251	9547A	9
9545		9545A	В		094520	W154.0		1276	1438	9548A	8
+9545	· - · • · ·	9546A	В					1443	1620	9549A	8
9546		9546A	В		113037	E179.2			1808	9550A	В
9546		9547A	₿						1948	9551A	8
9547		9547A	8		131/53	E152.3			2139	9552A	8
9547		9548A	8					2144	2325	9553A	В
9548		95484	8		150510	E125.5					
9548		9549A	В								
9549		9550A	В			E098.7					
9550		9551A	В		_	E071.9			-		
9551		9552A	8			E045.1					
9552		4553A	В			E018.2					
9553					000132	H U O B . 6					
-NU 6	.7 DATA										

#### TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 23 NOVEMBER 1974

	THIR							E	SMR		
		INT		THIR	ASC.	ANII					
	11.5 + 6.7	ORRIT	Ö	CIND	DESC.					THI	H D
DATA	ON OFF	•	સ		TIME	LUNG	DATA	ÜN	UFF	+	9
ORBIT	HRMN HRMN	STDN	s	•	HRMNSS		08811		HRMN	STON	ŝ
			Ŭ			524	0.011	11111111	1111.111	31011	3
	DAYTIME	тніч			ASC.	NODE					
9554	010/ 0113	9556R	A		005511	E158.0	9555	0107	0305	9556R	A
9555	0212 0258	95568	Ā			E131.2	9556		0503	9556R	8
9556	0359 0447	95563	3			E104.4	9557		0655	9557R	В
9557	0546 0635	9557R	В			EU/7.5	9558		0835	9558A	В
9558	0733 0822	9558A	В		_	E050./	9559	_	1022	9559A	В
9559	0921 1009	9559A	8		_	E023.9	9560		1205	9560A	В
9560	1108 1156	9560A	В		_	W002.9	9561	1210	_	9561A	В
9561	1255 1344	9561A	Ħ			HU29.7	9562		1535	9562A	8
9562	1442 1551	9562A	В			H056.5	9563		1726	9564A	В
9563	1630 1/18	9564A	В			W083.4	9564		1909	9564A	Ā
9564	1817 1905	9564A	Ā			H110.2	9565		2052	9565A	В
9565	2004 2050	9565A	8			W137.8	9566		2239	9566A	8
9566	2151 2237	9566A	В		_	H163.8	,,,,,			,,,,,,	,
	NIGHTTIM				DESC.			NEMS		4 - ITP	R
9554	0113 0212	9556R	A		_	W035.4		_	0305	9556ĸ	1
9555	0305 0359	9556R	В			W062.2			0503	9556R	В
9556	0447 0503	9555R	8		052321	WU89.0			0656	9557K	В
9556	0513 0546	9557R	9						0835	9558A	В
9557	0635 0655	9557R	8		071037	W115.8			1022	9559A	В
9557	0701 0/33	9558A	В						1206	9560 A	8
9558	0822 0829	9558A	8		085/54	W142.7			1354	9561A	9
. 9558	0840 0921	9559A	8						1536	9562∧	8
9559	1009 1020	9559A	В		104510	W169.5		1540	1726	9564A	В
9559	1027 1108	9560 A	8					_	1909	9564A	A
9560	1156 1204	9560A	В		123227	E163./			2052	9565A	8
9560	1211 1255	9561A	В					2056	2238	9566A	В
9561	1344 1352	9561A	В.		141943	E136.9					
9561	1359 1442	9562A	В			_					
9562	1540 1650	9564A	В		_	E110 • 1					
9563	1718 1/24	9564A	В		175416	£083.2		-			
9563	1727 1817	9564A	A								
9564	1909 2004	9565A	В			E056.4					
9565	2057 2151	9566A	8			E029.7					
9566					231605	E002.8					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 24 NOVEMBER 1974

THIR								Ε	SHR		
		INT		THIR	ASC.	NI				INT	<del></del>
		ORBIT	D	GRID	DESC.					ORBIT	O
	11.5 + 6.7 ON OFF	+	R	CORR	TIME	LONG	DATA	ON	OFF	+	R
DATA	ON OFF Hrmn Hkmn	STON	S	LALO	HRMNSS		ORBIT		HRMN	STON	s
ORBIT	HKMN HKMN	5141	3		***************************************	020					
	DAYFIME	THIR			ASC.	NUDE					
9567					000946	E169.4	9571	0614	0752	9572A	8
9568					015703	E142.6	4572	•	0940	9572A	A
9569					034419	E115.7	9573	0940	1126	9573A	8
9570					053136	E088.9	9574		1319	9574A	B
9571	0648 0/36	9572A	8		071852	Eu62.1	9575	1315	1451	9575A	В
9572		9572A	A		090608	E035.3	9576	1478	1637	9576A	9
9573		9573A	В		105325	E008.5	9577	1643	1820	9577A	3
49574	•	9574A	В			W018.3	4578	1824	2010	9578A	В
9575		9575A	В		142758	WU45.2	9579	2015	2152	9579A	8
9576		9576A	В			WU/2.0	9580	2157	2340	9580A	8
9577		9577A	8			H098.8					
9578		9578A	В		194947	W125.6					
9579		95794	8			W152.4					
9580		9580A	В			W179.3					
	ERENT 6./ TI		-		202.20						
9574		95744	В								
7374	1210 1250										
	NIGHTEL	1E THIR			DESC.	NUDE		NEM	S - S	cr - IT	> R
								0414	0/52	9572A	В
9567	•					W024-0			0940	9572A	A
9568	1					H050.8			1127		B
9569	)					H0/7+7				9574A	
9570	0614 0648	9572A	В			W104.5			1310		8
9571	0736 0/51	9572▲	8		081229	W131.3			1451		
9571	0753 0835	957?A	A					-	1638		8
9572	0924 0938	9572A	A		095945	W158.1			1819		В
9572	2 0940 1022	9573A	н					_	2011		8
9573	1111 1125	9573A	8		114/02	2 E1/5.1			2152		В
*9573	1132 1154	9574A	8				•	215/	2340	9580A	8
957	1315 1357	9575A	8		133418	E148.2					
9579	1445 1451	9575A	8		152135	5 E121.4					
9579	5 1458 1544	9576A	В								
957	6 1643 1751	9577A	8			L E094.9					
957	7 1824 1919	9578A	В			7 EU67.8					
957	_	9579A	В		204324	4 E041.0					
957			9		22504	D E014.2					
•958	0 2342 0041	9583R	A		00175	7 WU12.7					
	FERENT 6./ T										
957	3 1132 1210	9574A	8								
958	0 2346 0041	95838	A								

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 25 NOVEMBER 1974

	THIR							6	SMR		
		INT	н	THIR	ASC.	AND				INT	
	11.5 + 6.7	ORBIT	D		DESC.					ORBIT	4
DATA	ON OFF	+	સ		TIME	LUNG	DATA	UN	OFF	+	D
TIERO	HRMN HRMN	STON		LALD	HRMNSS	DEG	ORBIT		HRMN	STDN	R
		<b>5,. 6</b> .	•	CALU	1111111133	DEG	ORBIT	пипи	пкпи	SIUN	5
	DAYTIME	THIR			ASC.	NUDE					
9581	0041 0129	9583R	A		011136	E1>3.9	9581	2540	0141	9583R	A
9582					025552	E127.1	9584		0710	9585A	Ā
9583						E100.3	9585		0849	9585A	8
9584	0602 0651	9585A	A			E0/3.5	9586		1041	9586A	é
9585	9750 0838	9585A	B		082042	EU46.6	9587		1222	9587A	B
9586	0937 1025	9586A	В			E019.8	9588		1410	9588A	8
9587	1124 1213	9587A	В		115515	H007.0	9589		1551	9559A	В
9588	1311 1400	9588A	В		134231	W033.8	9590		1738	9590A	В
9589	1459 1547	9589A	В		152947	W060.6	9591	_	1920	9591A	8
9590	1646 1/34	9590A	₿			HU87.4	9592	_	2108	9592A	8
9591	1833 1918	9591A	В			H114.3	9593		2255	9593A	а
9592		9592A	В			W141.1				,,,,	•
9593	2208 2274	9593A	В		223853	W167.9					
	NIGHITIM	C TUTO			2500	Nune					_
		C 1111.			DESC.	HOUE		NET	• - SC	R - IIP	R
9581	0129 0140	9583R	A		020513	H039.5		2340	0141	9583R	A
9582					035229	W066.3		0529		9585A	Ä
9583	0529 0602	9585A	A		053946	W093.1			0848	9585A	8
9584	0651 0/08	9585A	A		072702	W120.0			1042	9586A	В
9584	0651 0/50	9585A	В						1227	9587A	8
9585	0838 0847	9585A	В		091419	H146.8			1410	9588A	В
9585	0857 0437	9586A	8					-	1551	9589A	В
9586	1025 1040	9586A	8		110135	H173.6			1738	9590A	В
9586	1047 1124	9587A	В					1743	_	9591A	В
9587	1213 1219	9587A	В		124851	E159.6			2108	9592A	В
9587	1227 1311	9588A	В						2255	9593A	8
9588	1415 1459	95894	8		143698	£132.7					-
9589	1556 1646	9590A	В		162324						
9590	1743 1833	95914	8		181041	E079.2					
9591	1925 2020	95924	В			E052.3					
9592	2113 2208	9593A	8		214514	E025.5					
9593					233230	-001.3					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 26 NOVEMBER 1974

	[HIR	<b>:</b>						_	SMR		
								• • • • • •			
		INT	н	THIR	ASC. A	UN				INT	4
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D
DATA	ON OFF	•	R	CORR	TIME	LONG	SATA	ON	OFF	+ 0 <b>T</b> D N	ર S
ORBIT	HRMN HKMN	STON	S	LÀLJ	HRMNSS	υEG	SKBIT	нкии	nkan	STDN	3
	DAYTIME	THIR			ASC. NO	DDE					
9594					002609	E165.3	9595		0238	9596R	A
9595	0142 0231	9596R	A		021326	E138.5	7596		0437	9596R	3
9596	0330 0418	9596R	8			E111.6	9597		0627	9597R	8
9597	0517 0605	9597R	В			E084.8	7598 2598		0810	9598A 9599A	8 B
9598	0704 0/53	9598A	В		073515	E058.0	7599		0953		
9599	0851 0940	9599A	8			E031.2	9600		1136	9608A	в В
9600	1039 1127	9600A	В			E004.4	7681		1322	9601A 9602A	
9661	1226 1514	9601A	8			W022.5	9602		1504	9603A	В
9602	1413 1502	9602A	В			WU49.5	9603		1655	9604A	8
9603	1600 1649	9603A	В			W0/6.1	9604		1838 2021	9605A	8 9
9684	1748 1836	9604A	В			W102.9	9605 2606			9696A	8
9605	1935 2019	9605A	В			H129.7	3606 4607		2211 2358	96 U 7 A	8
9686	2122 2210	9605A	В			W156.5	7607	4210	2375	7007 A	D
9607	2310 2356	9607A	В		234043	E1/6.6					
	NIGHTTI	ME THIR			DESC.	NUDE		NEM	s - sc	R - 11P	R
9594	0044 0142	9596R	A		011446	W028.1			0239	9596R	A
9595	0231 0237		A		030/03	W054.9			0437	9596R	9
9595	0238 0330		В						0627	9597R	H
9596	0418 0435	9596R	В		845419	W081.8			0810	9598A	8
9596	0444 0517		В						0954	95994	В
9597	0605 0626	9597R	В		064136	W108.6		-	1138	9600A	9
9597	9633 0704	9598A	В					_	1323	9501A	8
9598	0753 0848	9598A	8		082852	W135.4			1509	9602A 9603A	9 3
9598	0815 0851	95994	B						1655 1838	9604A	9
9599	0940 0951	9599A	В		101608	W162.2	*	_	2021	9605A	8
9599	0958 1039	9600A	В					_	2211	9606A	В
9600	1127 1137	9600A	В		120325	E1/1.0			2358	9607A	В
9600	1143 1226	9601A	В					2210	2000	,00,7	.,
9681	1314 1323	9601A	8		135041	E144.1					
9601	1330 1413	9602A	В								
9602			8		153/58	6 E117.3					
9602	1514 1686		В								
9603			В			4 EU90.5					
9604	1917 1939		B			1 EU63./					
9605	2027 212		В			7 E036.9					
9606						3 E010.1					
9697	2358 005	7 9610R	A		00342	0 W016.8					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 27 NOVEMBER 1974

	1111	₹							ESMR		
		•									
	44 6 . 4 7	INT	Н	THIR	ASC.					INT	н
DATA	11.5 + 6.7 ON OFF	ORBIT	D	GRID		NUDE				ORBIT	D
ORBIT		. +	R	CORS	TIME	LUNG	DATA	UN	OFF	+	ĸ
OKBII	нкин икин	STON	S	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	ŝ
										· · · · · ·	•
	DAYTIME	THIR									
					ASU.	NODE					
9688	0057 0145	9610R	A		012750	E149.8					
9609	0244 0533	9609R	8			E123.0	9609		0353	9609K	8
9610	0431 0520	9610R	8			EU46.2	9610		0540	9610R	В
9611	0619 0/07	9611A	8			E069.4	9611		0721	9611A	В
9612	0806 0854	9612A	8		004746	EU42.5	9612		0907	9612A	8
9613	0953 1042	9613A	В				9613		1052	9613A	В
9614	1140 1229	9614A	8			E015./	9614		1237	9514A	8
9615	1328 1416	9615A	8			W011.1	9615		1425	9615A	В
9616	1515 1603	9616A	В			W037.9	9616	1451	1609	9616A	8
9617	1702 1/51	9617A	В		174010	H064.7	9617	1615	1752	9617A	в
9618	1849 1957	9618A	8			H091.6	9615		1938	9618A	В
9619	2037 2125	9619A	9			4118.4	9619		2126	9619A	8
9620	2224 2310	9620A	В			H145.2	9620	2131	2312	9620A	В
		,,,,,,	U		223310	W172.0					
	NIGHTTIM	F Tuto									
	W1001111	e intk			DESC.	NUDE		NEMS	s - sc	R - ITP	R
9608	0145 0153	9610R	A		022136	H043.6					
9688	0155 0244	9609R	8		000100	~040.0		2356		9610R	A
9609	0333 0352	9609R	8		040853	HU/0.4			0353	9609R	В
9589	0401 0451	9610R	В			407044		0401		9610R	8
9610	0520 0537	9610R	В		855689	W097.2		0546		9611A	В
9610	0545 0619	9611A	8					0/25		9612A	В
9611	0707 0/18	9611A	В		074325	H124.0		0912		9613A	В
9611	0726 0806	9612A	В					1057		9614A	3
9612	0854 0905	9612A	8		093042	H150.9		1243		9615A	В
9612	0912 0953	9613A	В		0.0042	~150.7		1431		9616A	В
9613	1042 1051	9613A	В		111758	U1/7 7		1615		9617A	8
9613	1057 1140	9614A	8		111, 70	41//4/		1/58		9618A	В
9614	1229 1236	9614A	В		130515	E155 6		1944		9619A	В
9614	1243 1528	9615A	В		100717	£133.3		2131	2312	9620A	В
9615	1416 1424	9615A	8		145011	C1.00 ;		••			
9615	1431 1515	9616A	8		145231	E150.					
9616	1615 1/02	9617A	8		141047	C404 6					
9517	1758 1849	9618A	8		163947						
9618	1944 2037	9619A	B		182704						
9619	2132 2224	9620A	-		201420						
9620		- U Z U A	В		220137						
					234853	W005.4					

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 28 NOVEMBER 1974

	fHIR							E	SMR		
		INT		THIR	ASC.	ANU				INT	<del></del>
	11.5 + 6.7	ORBIT	D	GRID	DESC.	NUDE				ORBIT	D
DATA	ON OFF	•	R	CORR	TIME	LUNG	DATA	UN	OFF	+	ų
ORBIT	HRMN HRMN	STON	s	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S
•		•	•								
	DAYTIME	THIR			ASC.	NUDE					
9621	0055 0100	9623R	A		004232	E161.2	9622	0055	0253	9623R	A
9622	0159 0247	96238	A		022949	E154.3	9623	0253	0452	9623R	븀
9623	0346 0434	9623R	В	•	041705	E107.5	9624	0500	0642	9624R	В
9624	0533 0622	9624R	8			E080.7	9625		0855	9625A	В
9625	0720 0809	9625A	В			E053.9	4626		1011	9626A	8
9626	0908 0456	9626A	9		093854	E027.1	9627	1017	1157	9627A	В
9627	1055 1143	9627A	8		112611	E000.3	9628	_	1342	9628A	8
9628	1242 1331	9628A	В		131327	W026.6	4629	1347	1525	9629A	В
9629	1429 1518	9629A	В		150044	W053.4	9630	1529	1707	9630A	В
9630	1617 1/05	9630 A	8		164800	W080.2	9631		1858	9631A	3
9631	1804 1848	9631 A	В		183516	W107.0	9632		2038	9632A	В
9632	1951 2036	9632A	В		202233	W133.8	9633		2226	9633A	Ð
9633	2139 2224	9633A	8		220949	W160.7	9634	2253	U053·	9636H	4
9634	2326 0014	9636R	A		235/06	E1/2.5					
	NIGHITIM	E THIR			DESC.	NUDE		NEM	s <b>-</b> sc	R - [TF	'R
		<b></b>						40-5		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
9621	0100 0159	9623R	A			WU32.2			0253	96238	A
9622	0254 0346	96238	8		-	HU59.0			0452	9623R	9
9623		9623R	B		051042	4085.9			8642	9624R	8
9623	9500 0533	9624R	ㅂ						0823	9625A	8
*9624		9624R	9		065/59	W112.7		_	1007	9626A	8
9624	0647 0/20	9625A	3		004545	W4.40 5			1159	9627A 9628A	8
9625		9625A	8		004717	W159.5			1343		8
9625		9625A	В						1524	9629A	8
9626		9625A	В		103232	W166.3			1707	9630A	8
9626		9627A	8				•		1858	9631A	8
9627		9627A	В		121946	E166.9			2038	9632A	8
9627		9625A	В						2227	9633A	8
9628		9625A	В		140/04	E140.0		2274	0052	9636R	A
9628		9629A	В			<b>5441</b>					
9629	-	9630A	8			E113.2					
9630		9631A	8		-	E086.4					
9631		9632A	8			E059.6					
9632		9633A	В			E 0 3 2 . 8					
9633		9635R	A			E005.9					
9634		9635R	A		005043	N050.A					
*NO 6	.7 DATA										

# TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 29 NOVEMBER 1974

	RIHI	!							ESMR		
		INT		THIR	450						
	11.5 + 6.7	ORBIT	H D	GR13	ASC.					INT	н
DATA	ON OFF	+	R	COKE	TIME	NODE				ORBIT	Đ
OKBIT	HRMN HRMN	STON	S	LALD	HRMNSS	LONG	DATA	UN	OFF	•	R
		0.0.	J	LALI	пипиоз	DEG	OKBIT	нкии	нкчи	STON	S
	DAYIIME	THIR			ASC.	NUDE					
9635					014422	£145.7	9636	0210	0409	9636R	в
9636	0300 0349	9636R	8		033138	E118.9	9637		0557	9637K	8
9637	0448 0536	9637R	H		051855	E042.1	9638		0736	9638A	В
9638	0635 0/23	9638A	В		070611	E065.2	9639	_	0922	9639A	ત
9539	0822 0411	9639A	8		085328	E038.4	9640		1106	9640A	B
9640	1009 1058	9640A	8		104644	E011.6	9641		1254	9641A	4
*9641	1157 1245	9641A	В		122801	W015.2	9642		1440	9642A	ě
9642	1344 1452	9642A	8		141517	HU42.0	9643		1625	9643A	9
9543	1531 1620	9643A	8		160233	WU68.8	9644		1801	9644A	ě
9644	1719 1807	9644A	В		174950	W095.7	9645		1952	9645A	8
9645	1906 1944	9645A	8		193706	W122.5	9646		2142	9646A	8
9646	2053 2135	9646A	8		212423	W149.5	9647		2328	9647A	В
9647	L1.5 DATA				231139	W1/6.1					_
	NIGHTIIM	E THIR			DESC.	NUDE		NEMS	s - sc	R - ITP	R
9535	0211 0500	9636R	8		023759	H047.7		0210	0409	9636K	В
9636	0349 0408	9635R	В		042516	WU/4.5		0416		9637R	. 8
9636	0416 0448	9637R	В					0602		9638A	8
9637	0536 0555	9637R	8		061232	W101.3		0/41		9639A	В
9637	0602 0635	9638A	8					0927		9640A	В
9638	0723 0/33	9638A	8		075949	W128.1		1111		9641A	8
9638	0741 0822	9639A	8					1259		9642A	8
9639	0911 0921	9639A	В		094705	W155.0		1445		9643A	8
9639	0927 1009	9640A	В					1631		9644A	В
9640	1059 1104	9648A	8		115421	E1/8.2		1815		9645A	8
*9640	1111 1157	9641A	8					1958		9646A	8
•9641	1245 1251	9641A	В		132138	E151.4		2148		9647A	В
9641	1259 1344	9642A	8							, .,	•
9642	1432 1439	9642A	В		150854	E124.6					
9642	1445 1531	9643A	0								
9643	1631 1/19	9644A	Θ		165611	E047.8					
9644	1815 1906	9645A	В		184327	E0/0.9					
9645	1958 2053	9646A	В		203043	EU44.1					
9646					221800	E017.3					
9647	<b>5 5</b> · <b>5</b> ·				000516	WU09.5					
-NO 11	.5 DATA										

## TABLE 2-2 DATA AVAILABILITY ON-OFF TIMES 30 NOVEMBER 1974

	THIR	ESMR									
		INT		THIR	ASC.	LNII				INT	
	11.5 + 6.7	_		GRID	DESC.					ORBIT	D
DATA	ON OFF	+	ĸ			LUNG	DATA	UΝ	OFF	+	٠ ٠
ORBIT	HRMN HKMN	STON	s	LALD	HRMNSS		ORBIT		HRMN	STDN	S
	DAYTIME	THIR			ASC.	NUDE					
9648	0111 0116	9650R	A		005855	E157.1	9649	0110	0303	9650R	A
9649	0215 0303	9650R	A		024612	E130.2	9650	0309	0508	9650R	3
9650	0402 0451	9650R	В		043528	E103.4	9651	8516	0657	9651R	В
9651	8549 8638	96518	Ð		062045	E076.6	9652	0/02	0837	9652A	В
9652	0737 0825	9652A	8		080801	E049.8	9653	0842	1028	9653A	8
9653	0924 ,1012	9653A	ы		095517	E023.0	9654	1053	1211	9654A	В
9654	1111/1200	9654A	В		114254	W005.9	9655	1215	1356	9655A	В
9655	1258 1347	9655A	В		132950	W050.7	9656	1401	1539	9656A	н
9656	1446 1534	96564	В		151/07	WUちノ・ラ	9657	1743	1725	9657A	В
9657	1	96574	В		170423	W084.3	9658	1/50	1908	9658A	В
9558	1820 1906	9658A	9	14		W111.1	9659		2054	9659A	В
9659	2008 2053	9659A	₿			H137.9	9660	2059	2243	9660 A	В
9660	2155 2240	9660A	8		222612	W164.8					
	NIGHITIM	E THIR			DESC.	NUDE		NEMS	s - so	R - ITP	'nR
9648		8965A	R			W036.3				9658R	A
9649	_	9650R	В			WU63.2			0508		В
9650		9651R	В		052706	HU90.0		_	0658	_	8
9650		9651R	8		<b></b>				0838		8
9651		9651R	ß		071422	W116.8			1028		В
9651		9652A	В						1211		8
9652		9652A	8		090138	H143.6			1356	9655A	8
9652		9653A	В		4 4 4 3 5 5				1539		В
9653		9653A	В		104077	W1/0.4		_	1726	9657A	8
9653		9654A	8			5140 4		_	1908		8
9654 9654		9654A	В		123011	E162.8			2054		В
		9655A	Ð		440708	5445 O		2009	2243	9660A	8
9655	-	9655A	В		142326	E135.9					
9655 9656		9655A	. 8		141044	£100 1		~			
9657		9657A	R	1.5		E109.1					
9658 9658		9658A	B	16	175800						
9659		96594	8			E055.5 E028.7					
*4650		9668A	В								
	1.5 DATA	96639	A		231770	E001.8					
-140 I	ADD UNIA,									•	

#### SECTION 3

### ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS

One ESMR display per day has been selected for presentation in this section. All ESMR coverage times are listed in the Data Availability On-Off Times (Table 2-2). Each display contains the following items:

#### Nimbus 5 ESMR

This identifies the satellite (Nimbus 5) and the experiment (ESMR).

#### Date

This identifies the Greenwich day, month, and year the data is recorded.

### Data Orbit

This data orbit number identifies only the last data orbit on each display. Usually parts of two data orbits are on the same display, since all data acquired during each satellite interrogation is presented on one  $4 \times 5$ -inch negative. In general, nighttime data is on the left and daytime data is on the right.

#### Program

No Program number is identified on these displays. Its intended use was to identify the appropriate table which would list the temperature interval for each gray level in the gray scale. The temperature programs used since launch are listed in Table 3-1.

### Gray Scale

A single 11-step gray scale serves to define ESMR brightness temperatures in all three swaths, by the assignment of a different brightness temperature range to each step for each swath. Table 3-1 defines the gray scale table used on all images since launch.

### Image Swaths (1, 2, 3)

A set of three swaths, labeled 1, 2, and 3, separates the same recorded data into three temperature intervals (defined in Table 3-1). The right set of three swaths is a continuation of the left set and is offset because of the limitations of the  $4 \times 5$ -inch film format. The three swath presentation is used because it shortens the temperature ranges spanned by

Table 3-1

# ESMR Gray Scale Steps Versus Brightness Temperature for Each of the Three ESMR Swaths in the ESMR Pictorial Displays (Temperatures in °K)

·		Orb	Table 1 it 104 throug	th 502	Table 2 Orbit 503 through 9660			
Swath		1	2	3	1	2	3	
(black)	1	>200	>262	>280	>210	>266	> 290	
	2	190-200	256-262	277-280	202-210	258-266	286-290	
ber	3	180-190	250-256	274-277	194-202	250-258	282-286	
	4	170-180	240-250	271-274	186-194	242-250	278-282	
Scale Number	5	160-170	230-240	268-271	178-186	234-242	274-278	
de N	6	150-160	220-230	265-268	170-178	226-234	270-274	
	7	140-150	210-220	262-265	162-170	218-226	266 <b>-</b> 270	
Gray	8	130-140	200-210	259-262	154-162	210-218	262-266	
O	9	120-130	190-200	256-259	146-154	202-210	258-262	
	10	110-120	180-190	253-256	138-146	194-202	254-258	
(white)	11	<110	<180	<253	<138	<194	< 254	

each step of the gray scale, and, therefore, permits discrimination of various meteorological and terrestrial phenomena.

Significant in swath 1 are the areas of atmospheric moisture and rainfall over oceans. Swath 2 brightness temperature range discriminates between new and multi-year ice and, over oceans, shows only rainfall areas. The high brightness temperatures of swath 3 outline some land areas of high soil moisture content or snow cover, but oceans lose almost all their temperature contrasts. The swath 3 information was lost because of an instrument malfunction between orbit 1062 (28 February 1973) and orbit 2250 (27 May 1973), and for short intervals after orbit 3015 (23 July 1973).

### Time Code Index

The Time Code Index, in hours and minutes (GMT), is adjacent to the gray scale. The top number in each set is for the left group of three

swaths; the bottom number in each set is for the right group of three swaths. Time bars are spaced at five-minute intervals. The same time bars are used for the left and right swaths. The top or bottom time code index determines the time for each time bar.

#### Grids

Two grids, labeled GRID L and GRID R, identify the geographic coordinates for the imagery of the left (L) and the right (R) sets of swaths, respectively. Latitude lines are spaced at 10-degree intervals. Longitude lines are spaced at 10-degree intervals to 60 degrees north and south of the equator, and at 20-degree intervals from 60 to 80 degrees north and south. The equator (EQ), North Pole (NP), and South Pole (SP) are labeled, as well as longitude values at the equator and at 30 and 60 degrees north and south of the equator.

### Swath Display Program

The antenna gain function is different at each beam position. Thus, to present a uniform surface temperature as the same shade of gray across a scan track requires that the output voltage at each antenna position be adjusted for its beam position and output voltage value. If the corrections are not precise, vertical bands will be evident in the ESMR pictorial displays.

Three different sets of calibration constants (Display Format Programs) were used during the first two months of operation to eliminate these vertical bands. Two additional programs have been used since the instrument malfunction of 28 February 1973. Volume 1 of this catalog series illustrates the vertical banding produced by the first three programs, while the images in this section illustrate the banding produced by the last two. After 27 May 1973, Program 5 was used for image displays whenever the instrument was operating normally. Table 3-2 shows the Display Format Programs used during this catalog period.

The brightness temperature accuracy varied with each Display Format Program. With display Program 1, which uses prelaunch calibration constants, the digital brightness temperature values have about ±20°K accuracy. With a change to postlaunch calibration constants, Programs 2 and 4 produce about ±2° to 5°K temperature value accuracies. Of course, with Programs 2 and 4, the displayed temperature values are accurate only within the limits of the temperature range of each step of the gray scales as defined in Table 3-1. Display Programs 5 and 6, used after the instrument malfunction of 28 February 1973, are considered to produce ±10°K temperature accuracies on the image displays.

A description of the ESMR experiment may be found in The Nimbus 5 User's Guide, Section 4, and instructions for ordering the data, both pictorial and digital, are in Section 1.7 of that Guide.

Table 3-2
ESMR Display Format Programs for October and November 1974

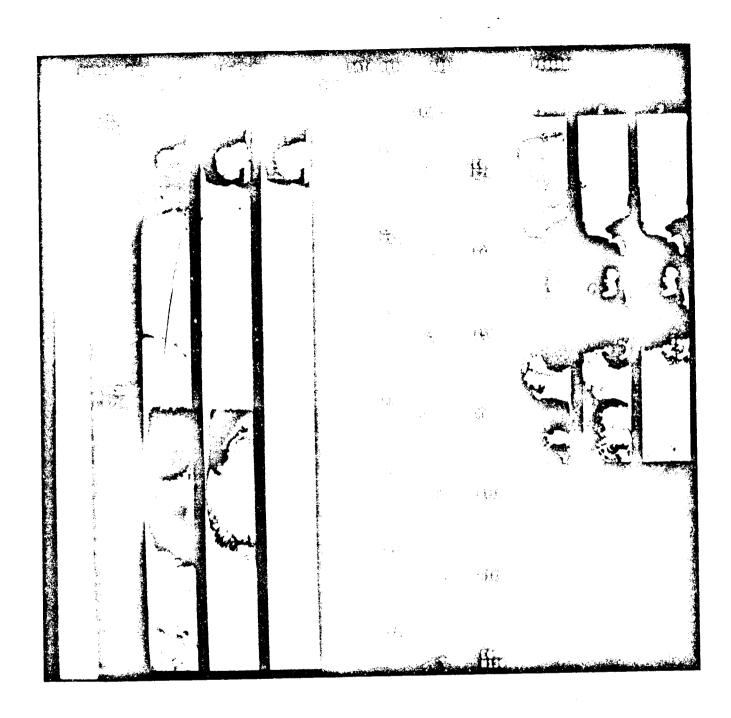
i /	ocessed with nat Program 5*	Orbits Processed with Display Format Program 6**					
Date	Orbits	Date	Orbits				
01-12 Oct	8843-8993	12 Oct	8993-8995				
12-13 Oct	8995-9006	13 Oct	9006-9009				
13-14 Oct	9009-9029	14 Oct	9029				
15 Oct	9032-9044	16 Oct	9045				
16 Oct	9047-9055	16-17 Oct	9057-9059				
17-18 Oct	9060-9074	18 Oct	9074-9075				
18-21 Oct	9075-9117	18-24 Oct	9117-9157				
24 Oct	9158-9160	24-28 Oct	9160-9210				
28-31 Oct	9210-9256	31 Oct-02 Nov	9257-9275				
02 Nov	9275-9284	02-03 Nov	9285-9287				
03-07 Nov	9289-9351	07-08 Nov	9352-9358				
08-30 Nov	9359-9661						

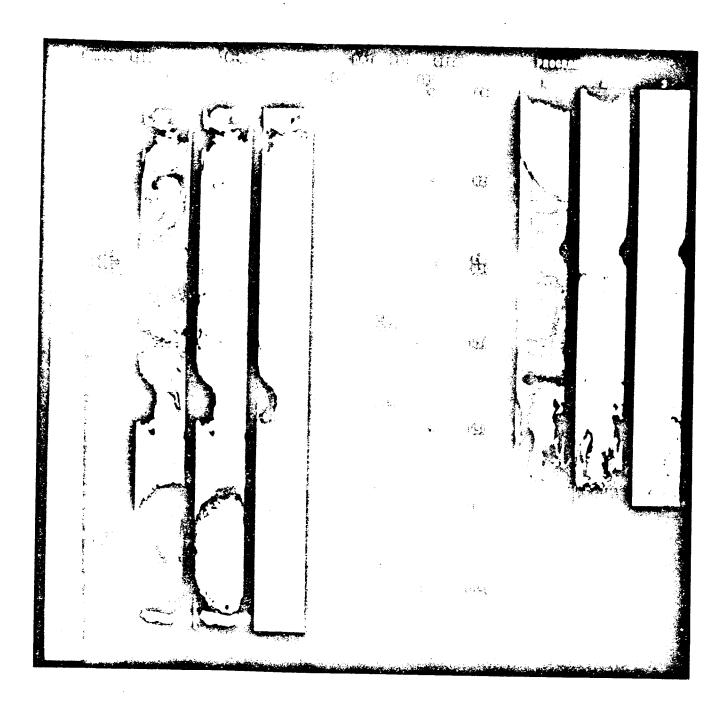
<sup>\*</sup>Program 5 is used whenever the instrument is operating normally (data in all three swaths).

<sup>\*\*</sup>Program 6 is used whenever the instrument is operating in the reduced response mode (data only in swaths one and two).

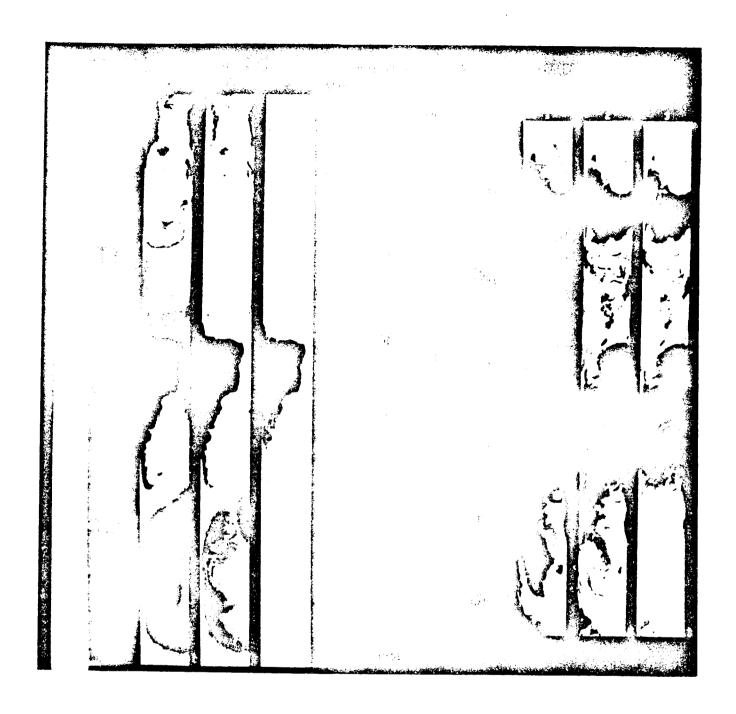
All orbits were processed with gray Scale Brightness Temperature Table 2 values (See Table 3-1).

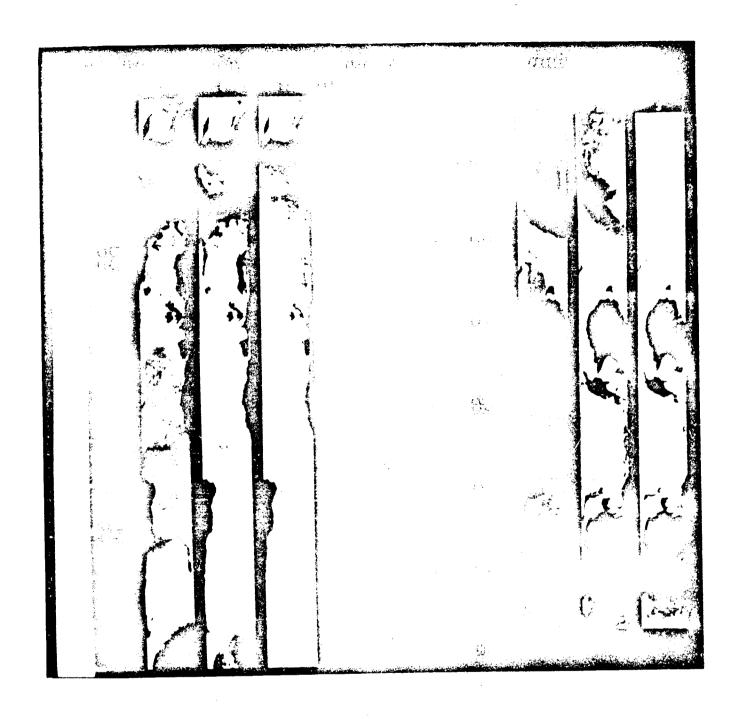
An orbit listed under both processing programs means the ESMR operated in both modes during that orbit.

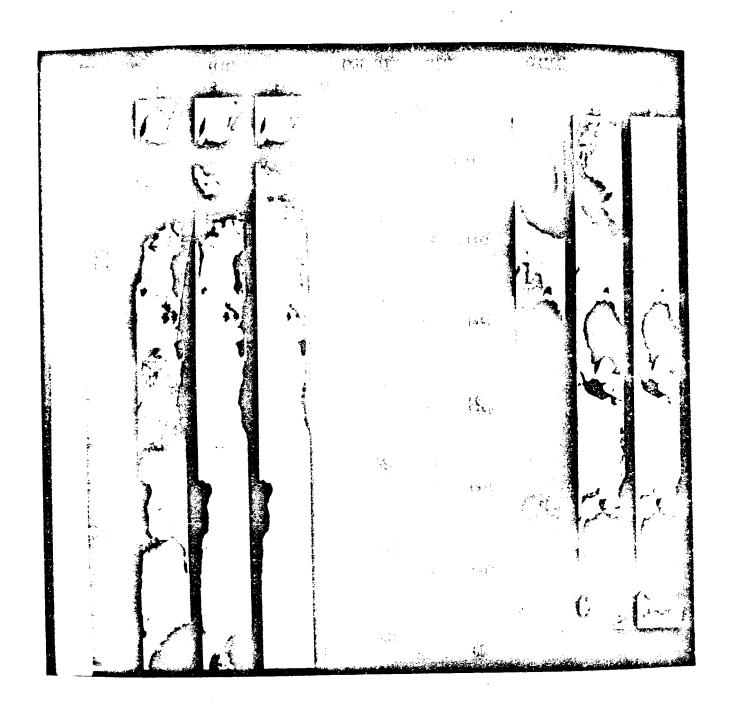


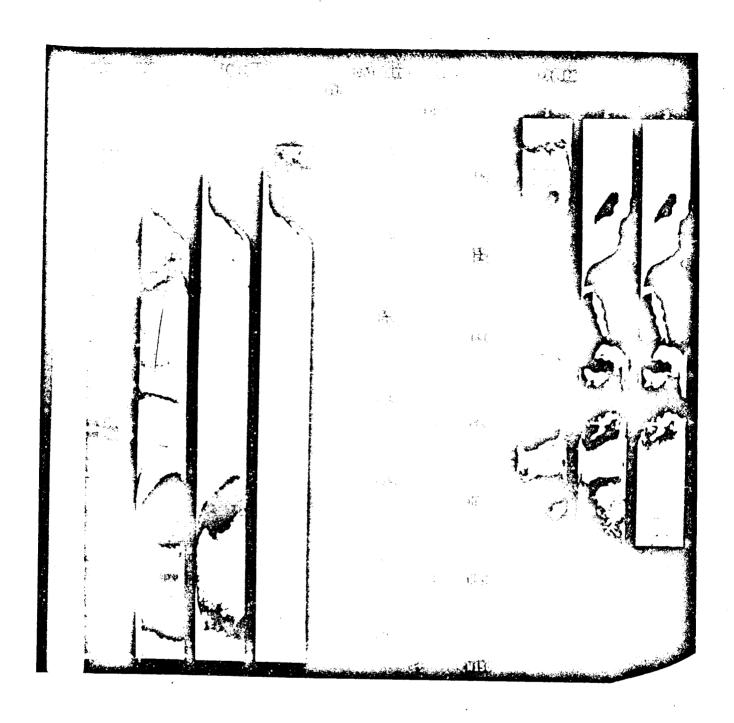


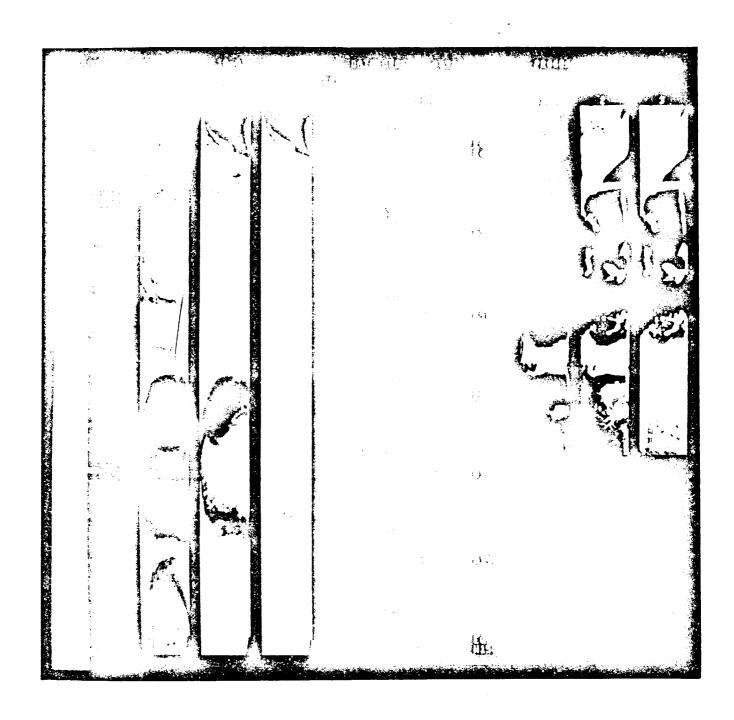


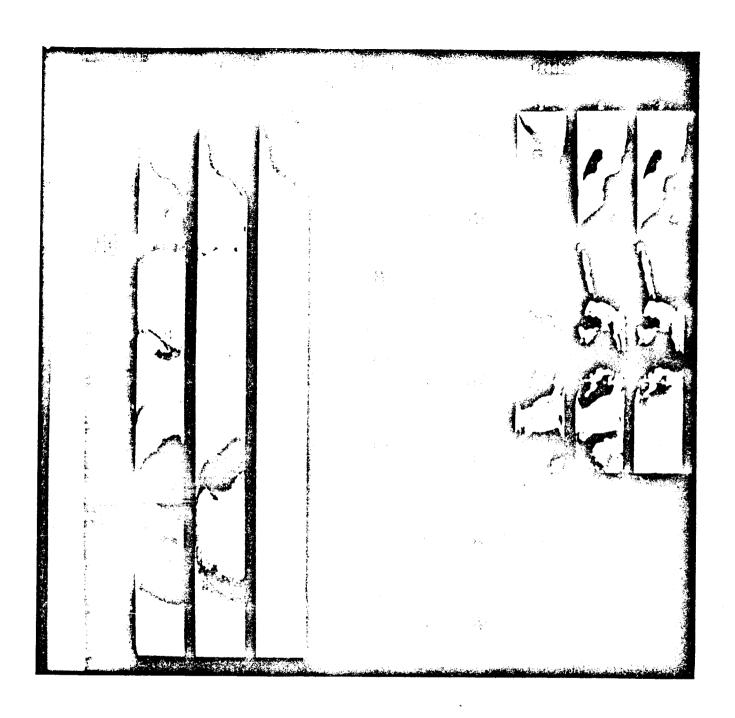


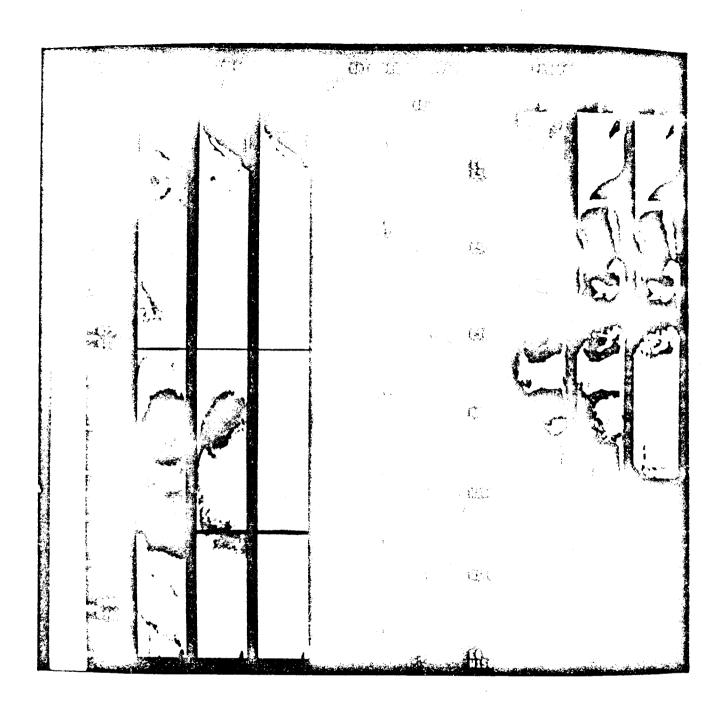


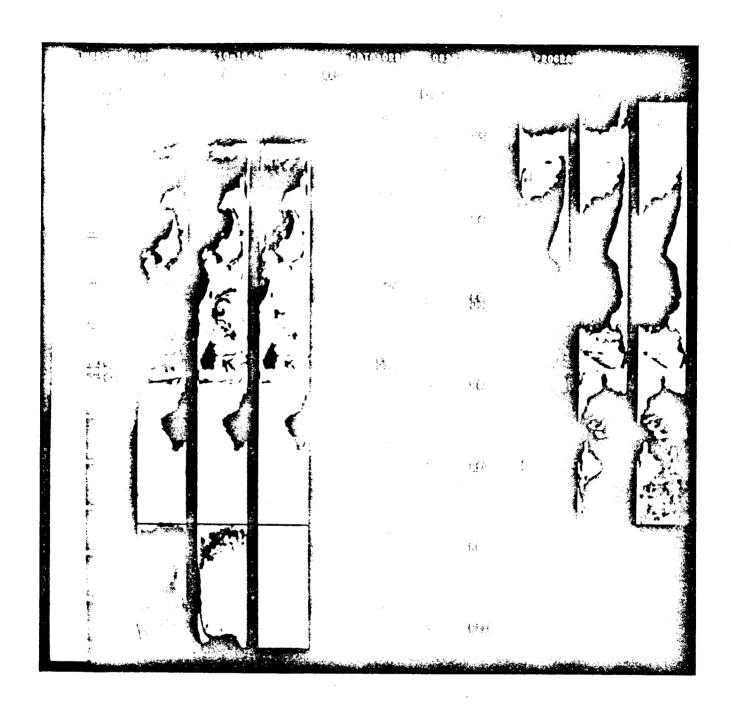


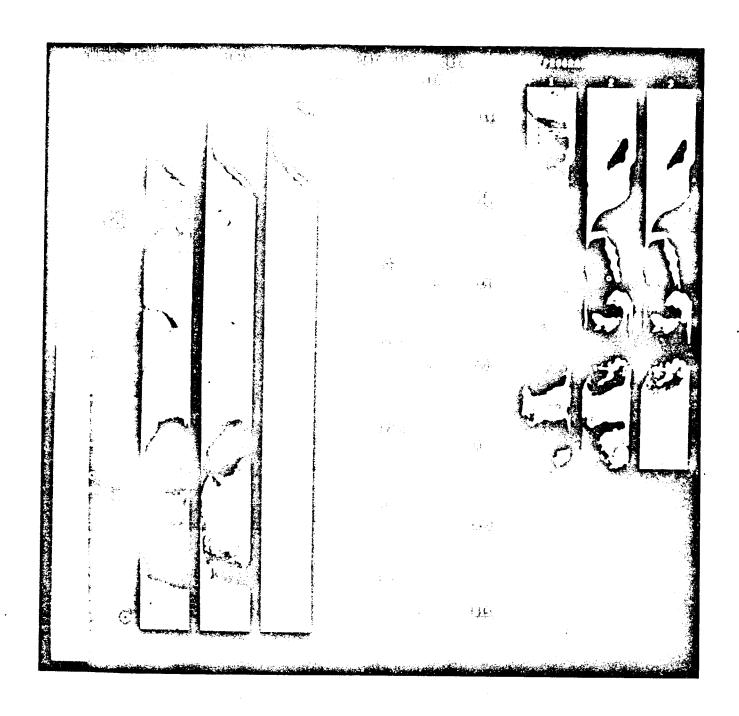


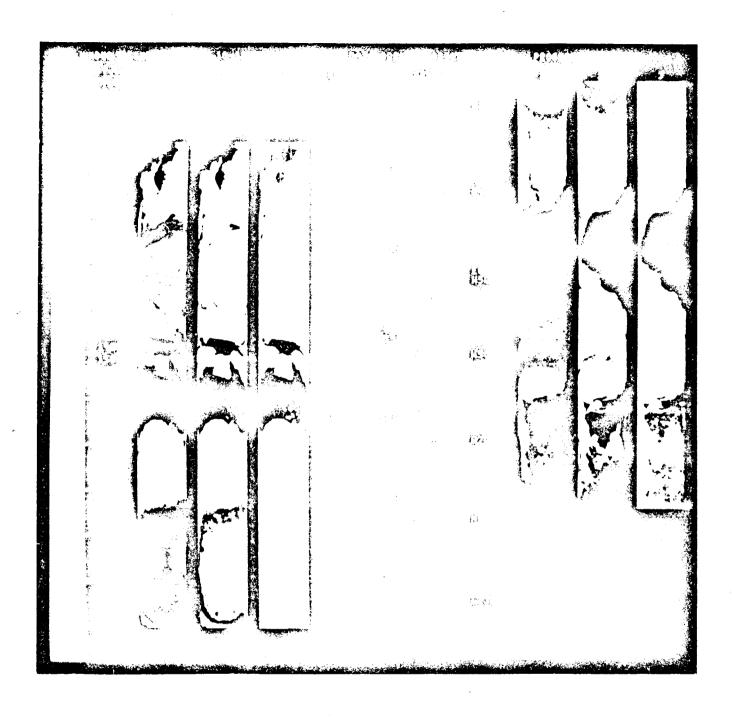


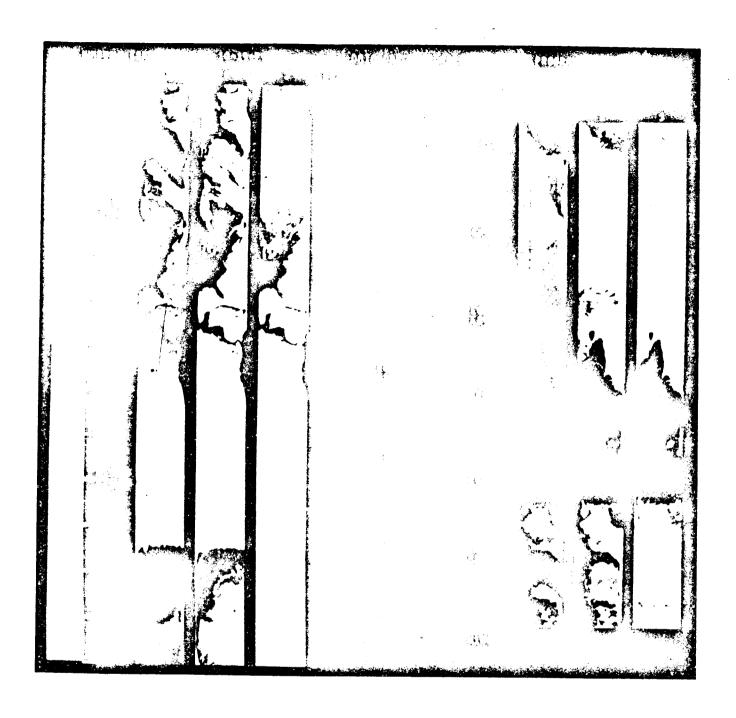


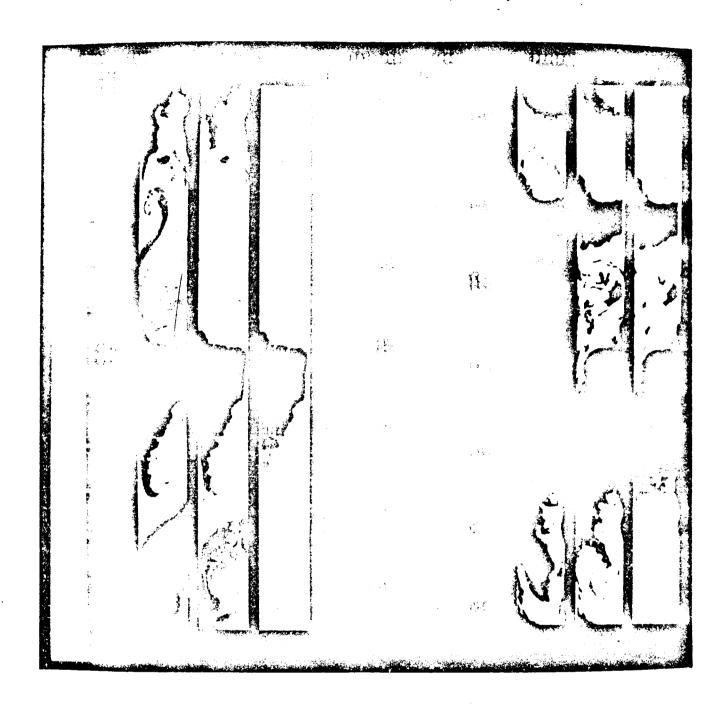


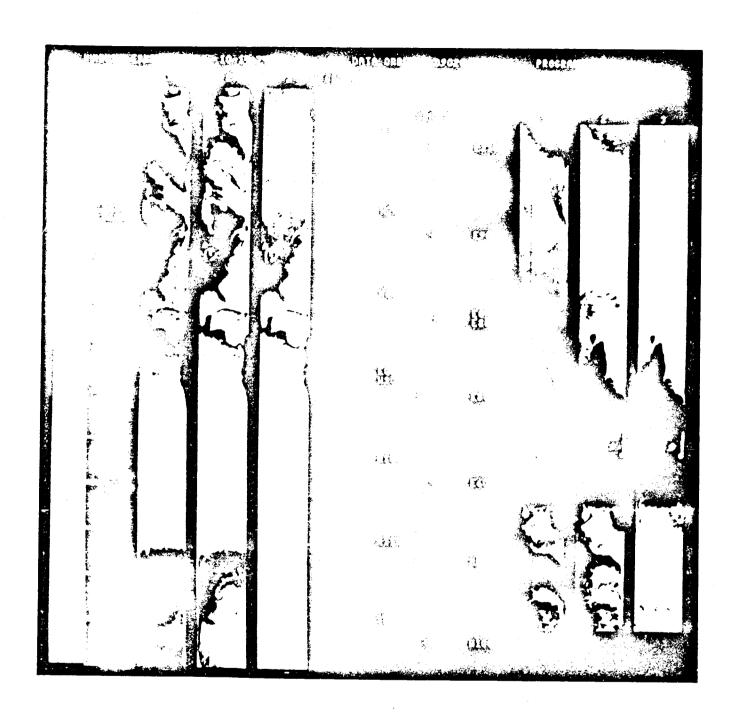


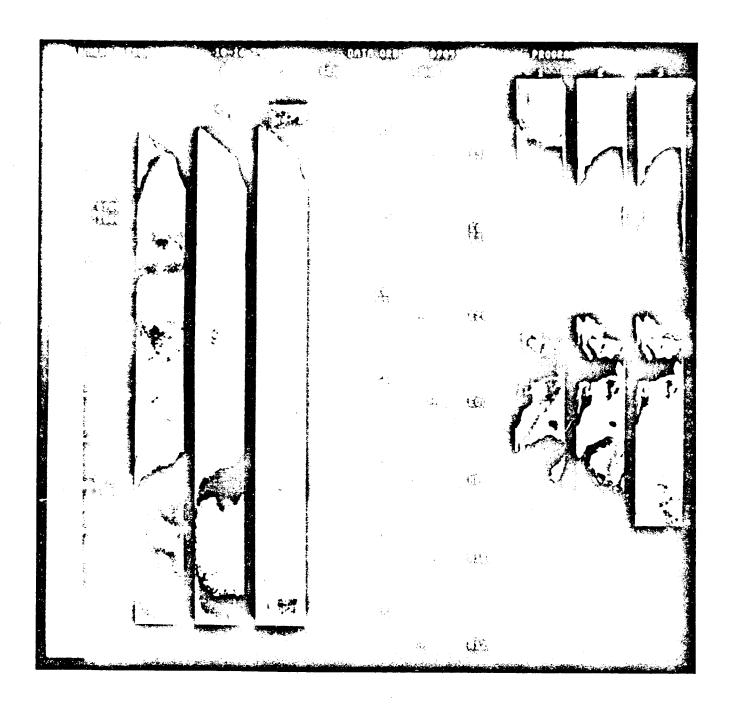


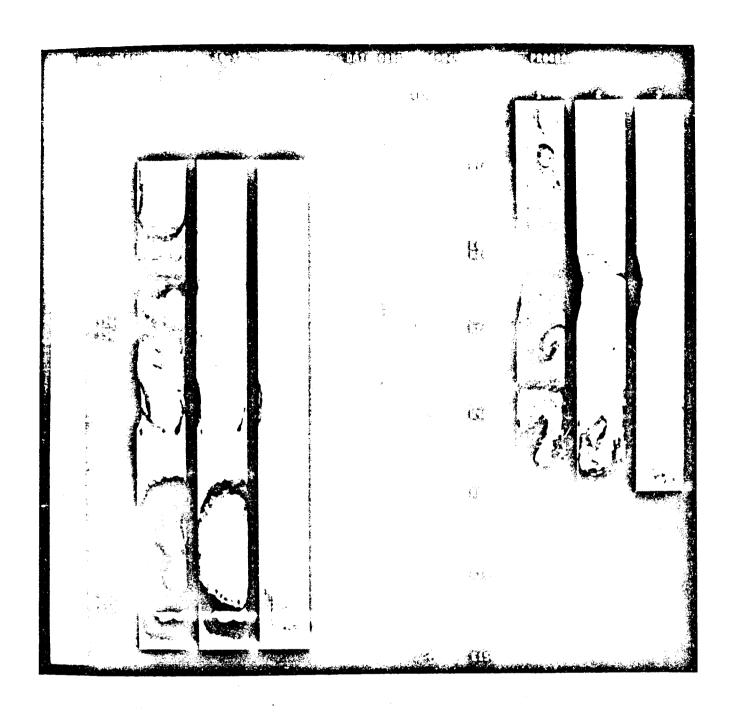


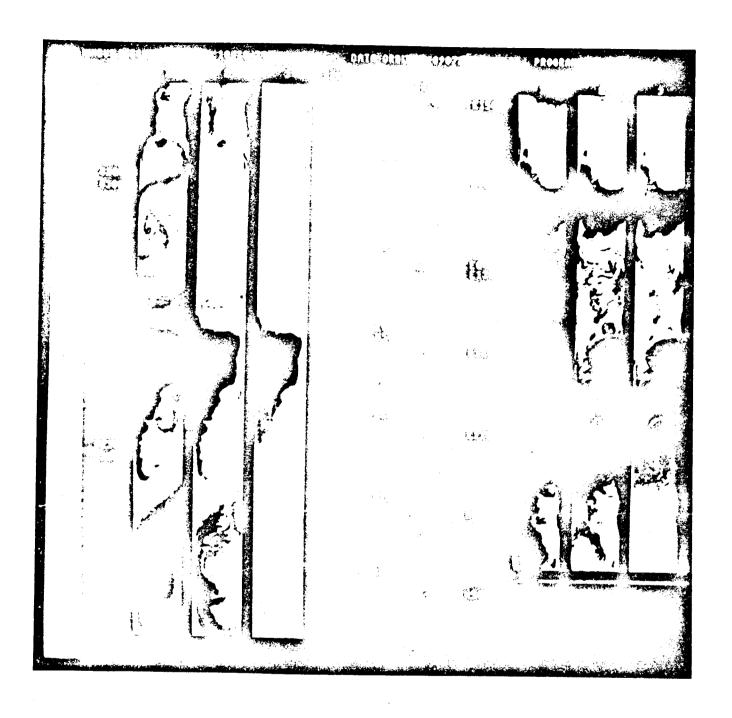


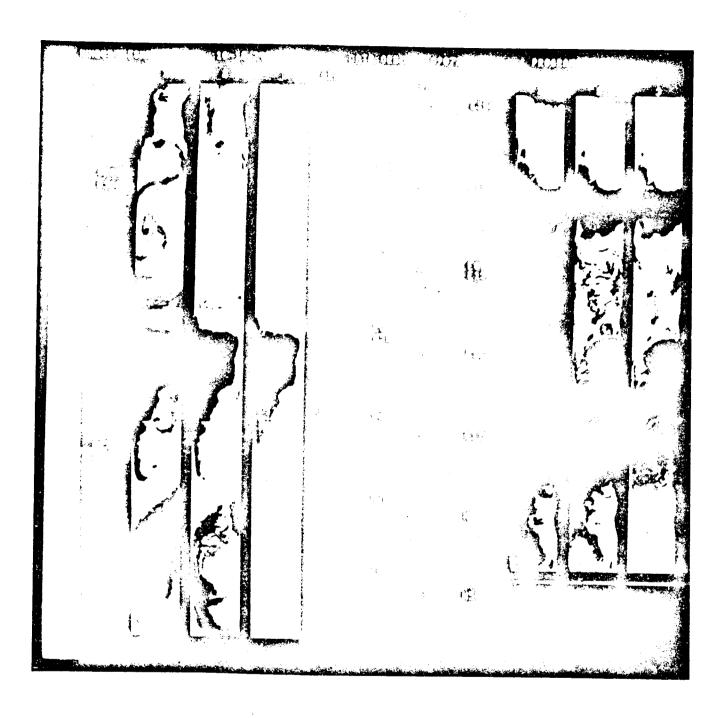


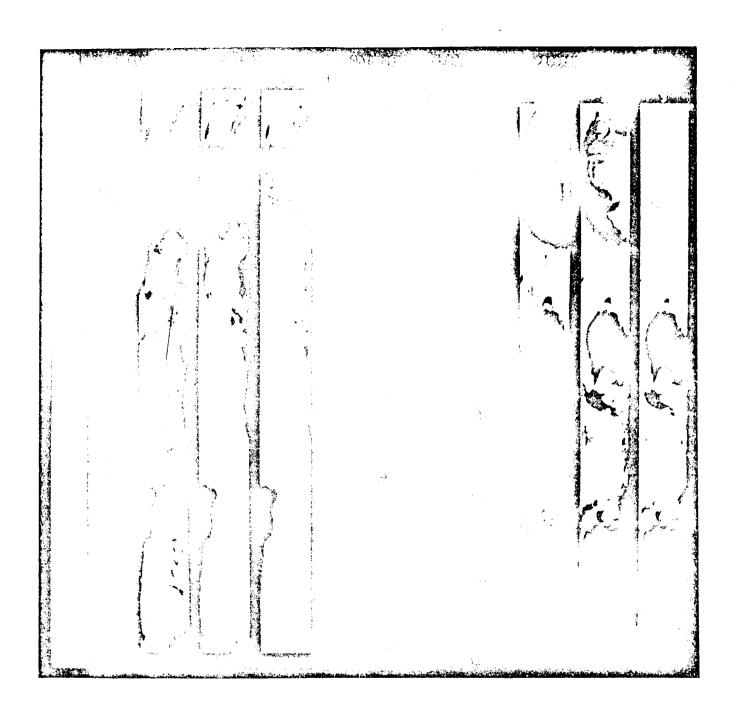


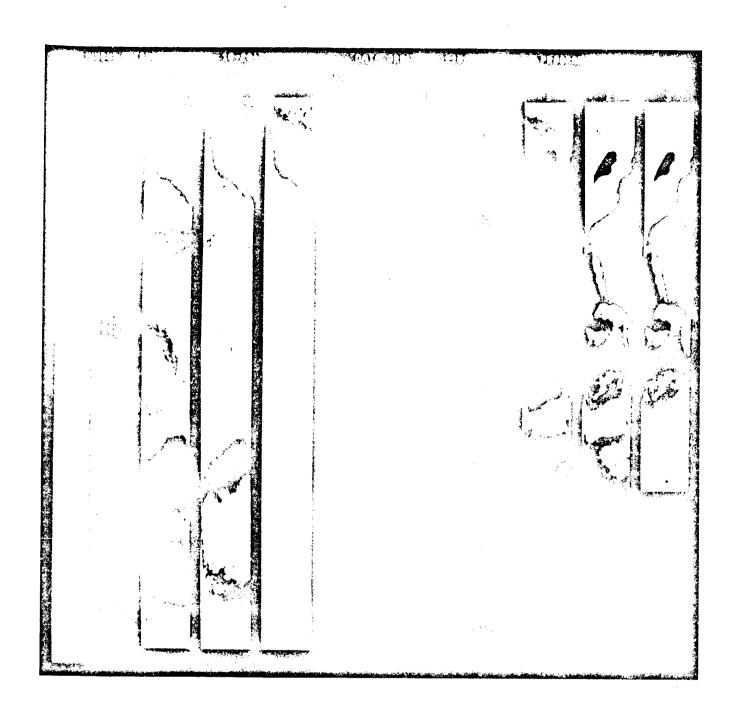


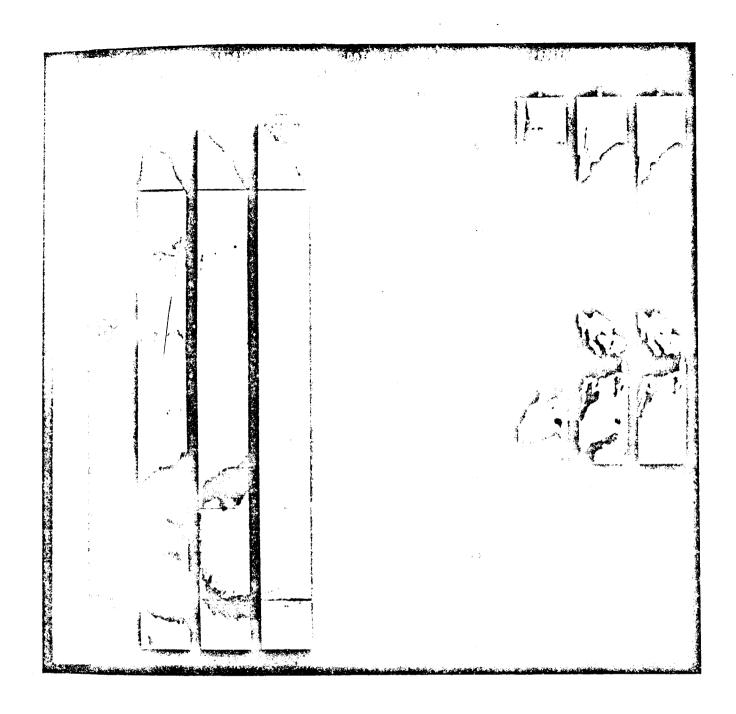


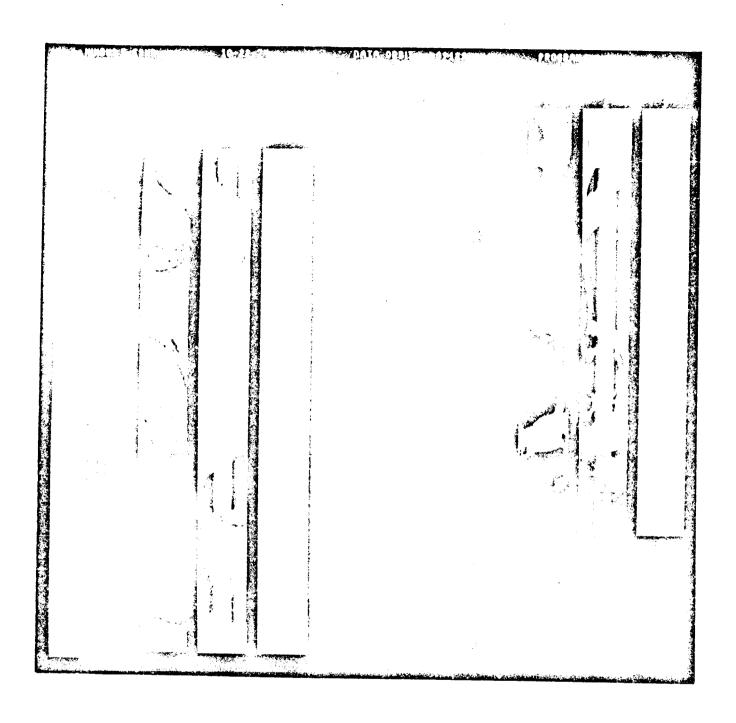


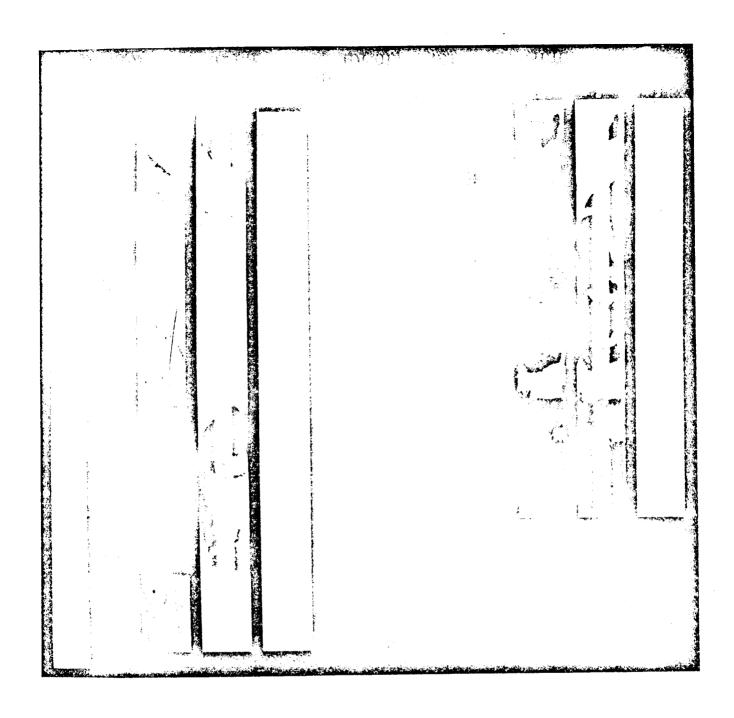


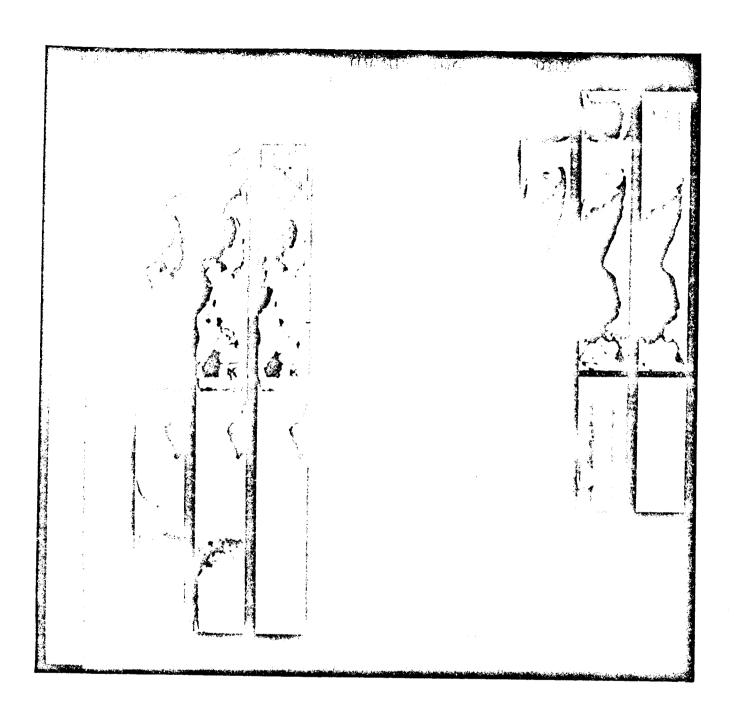


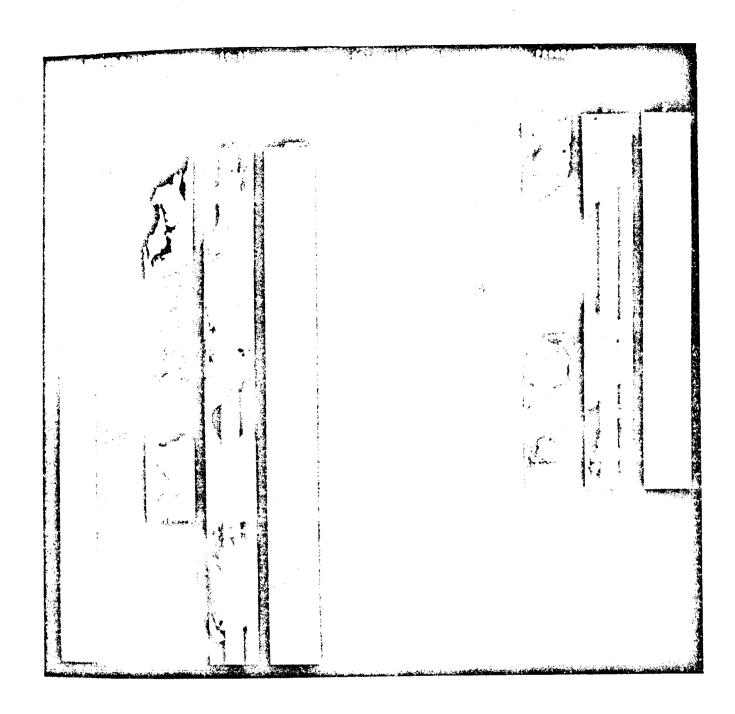


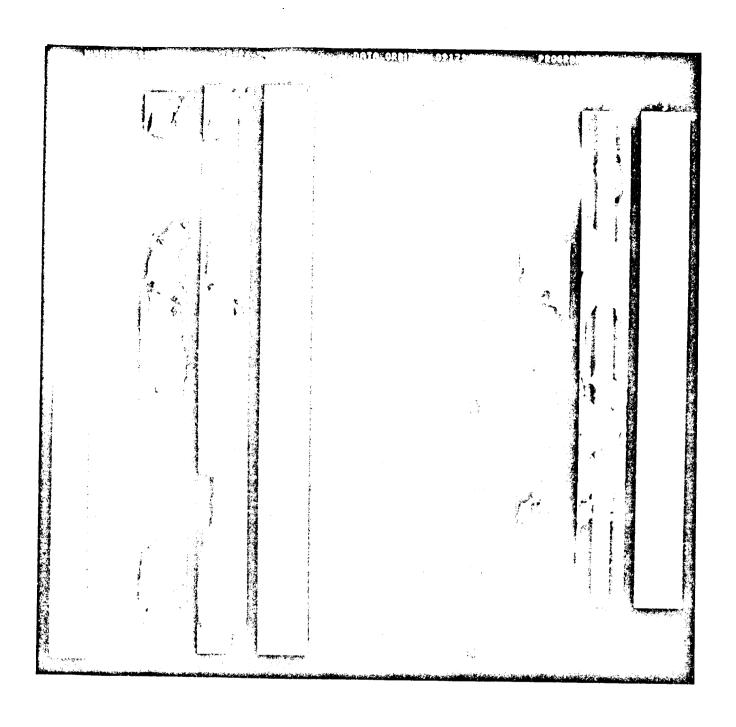


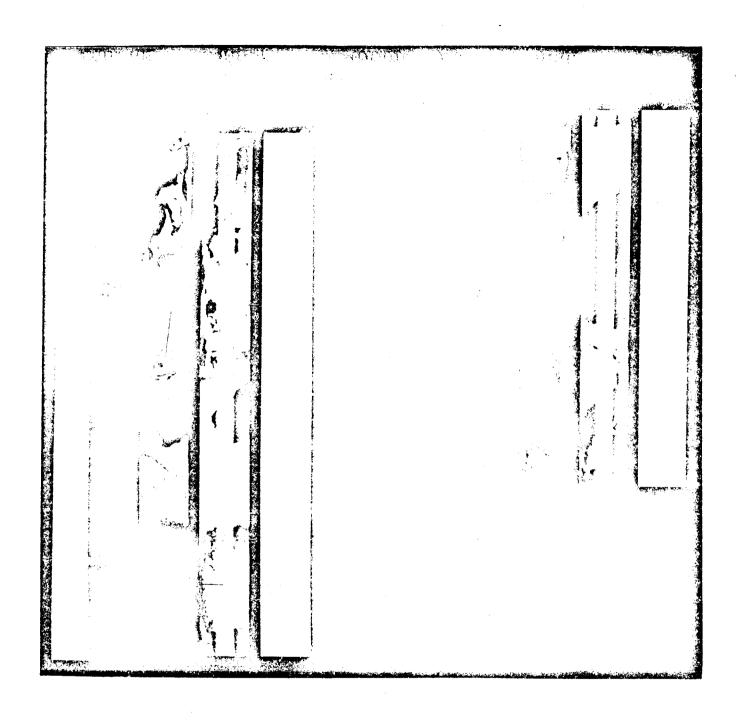


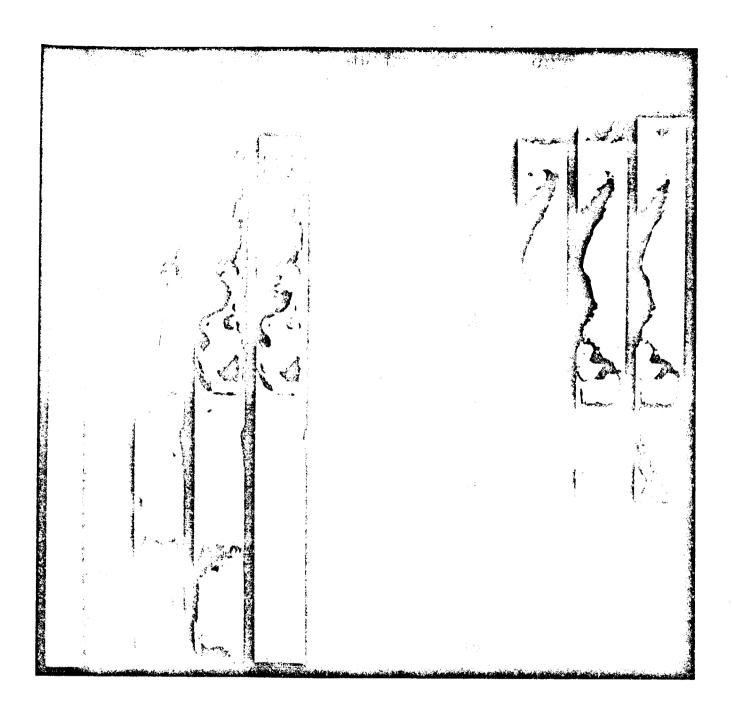


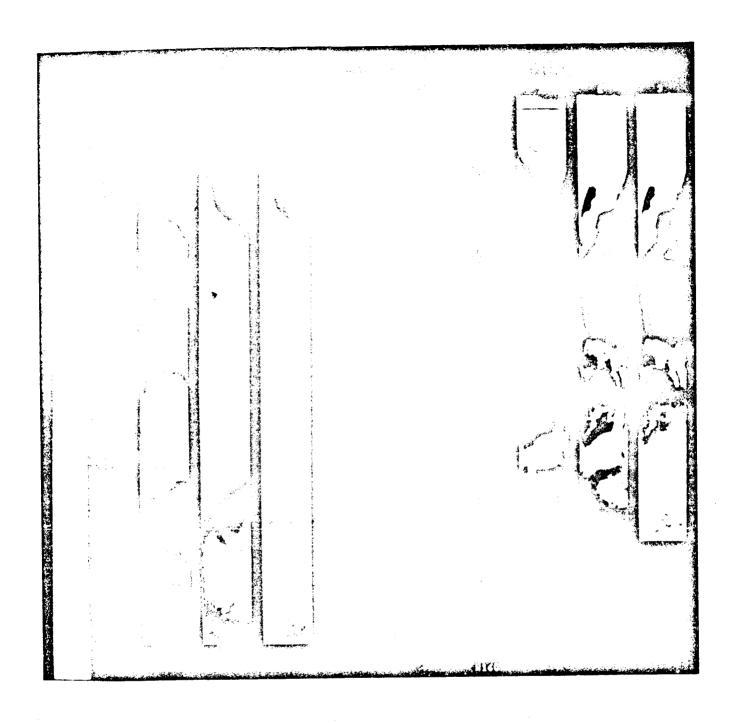


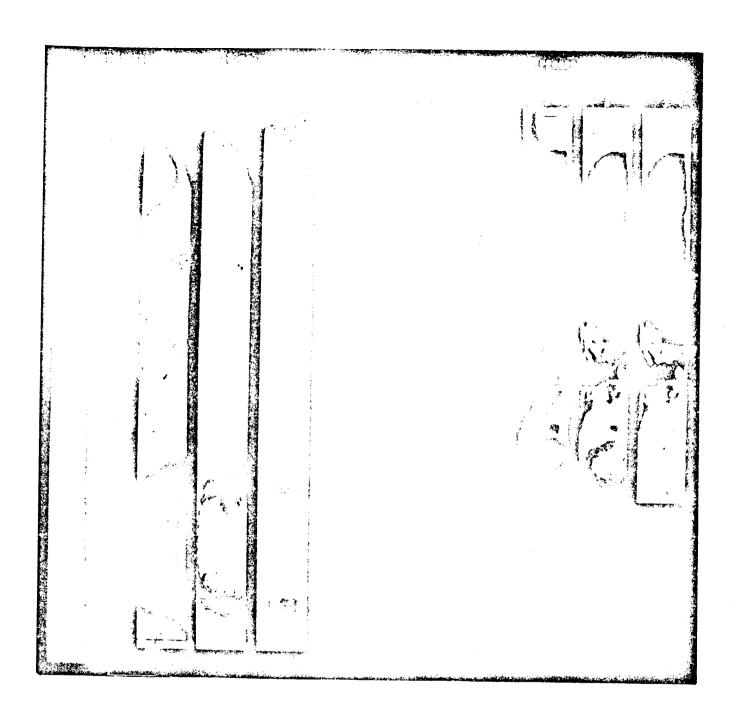


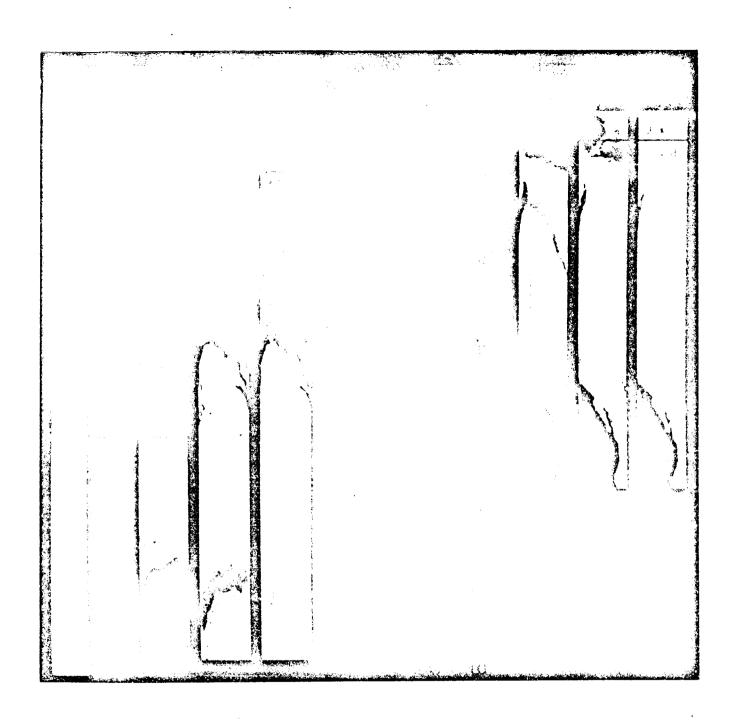


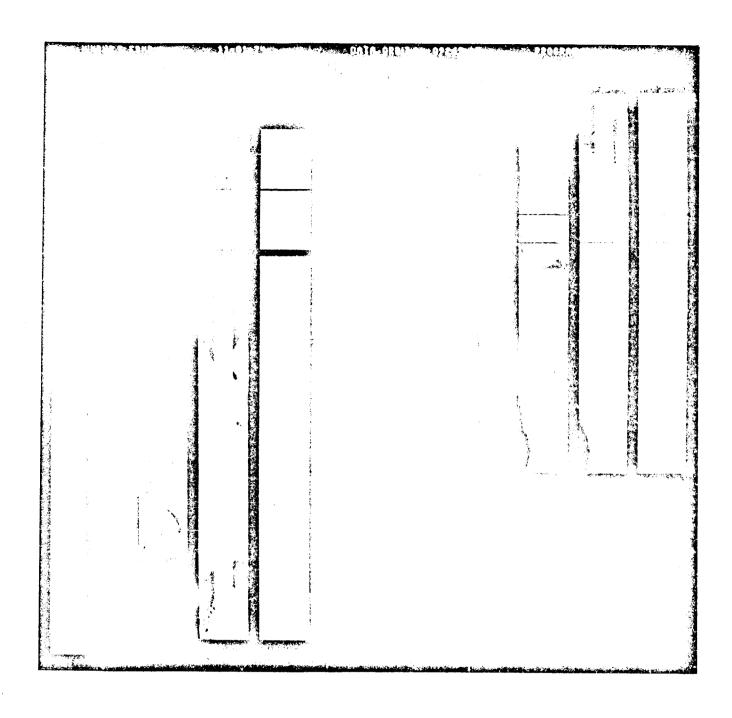


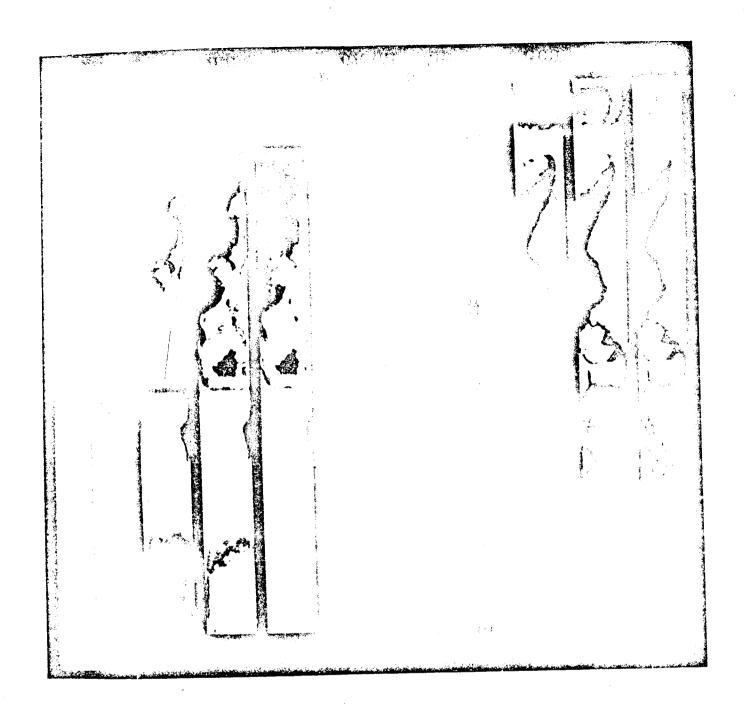


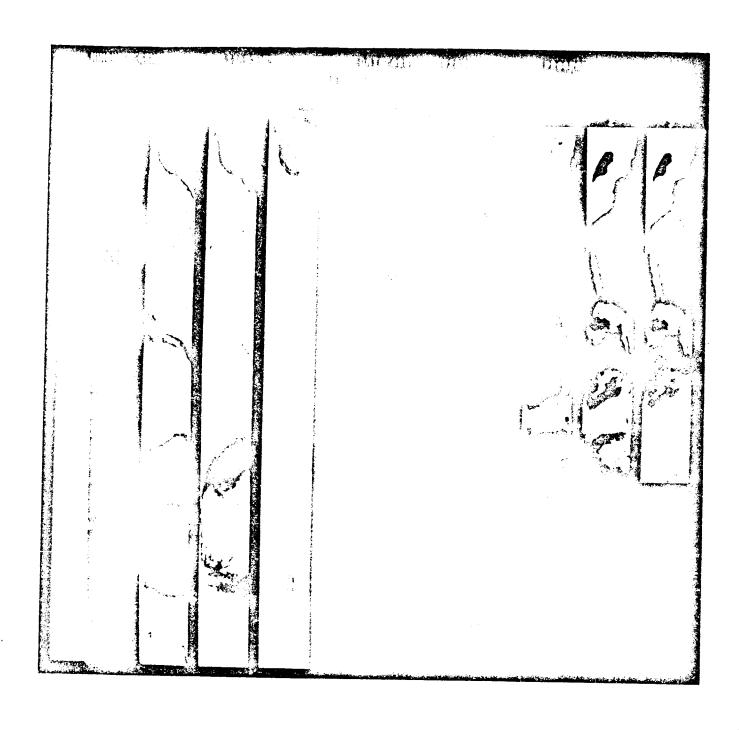


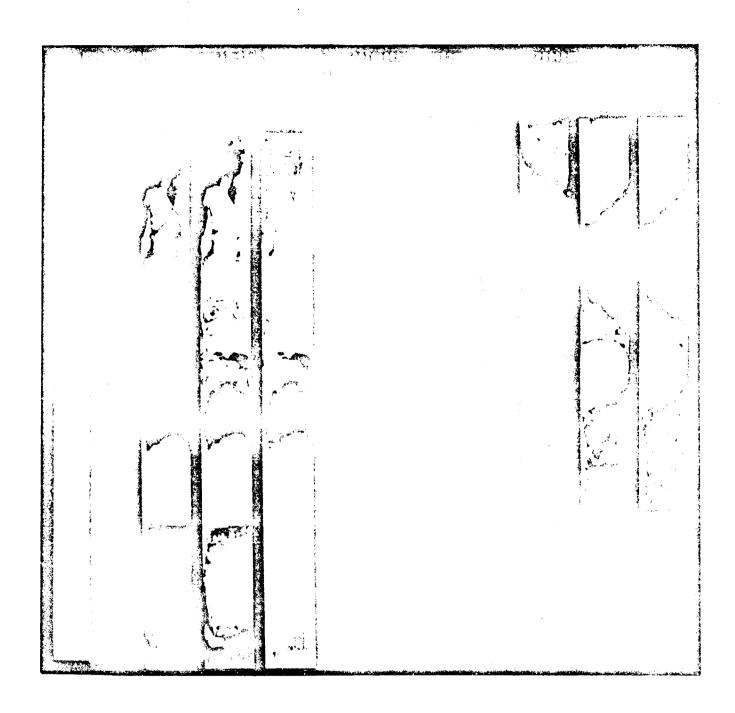


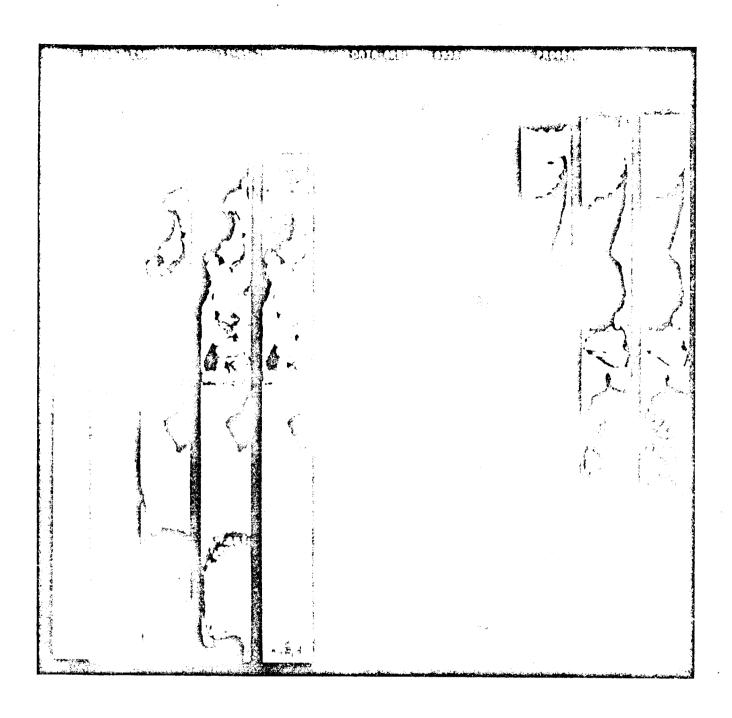


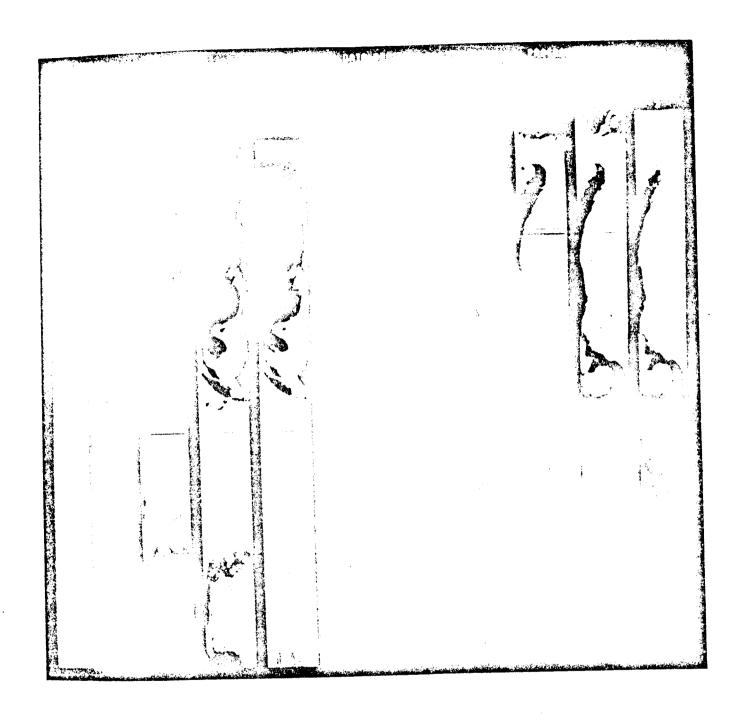


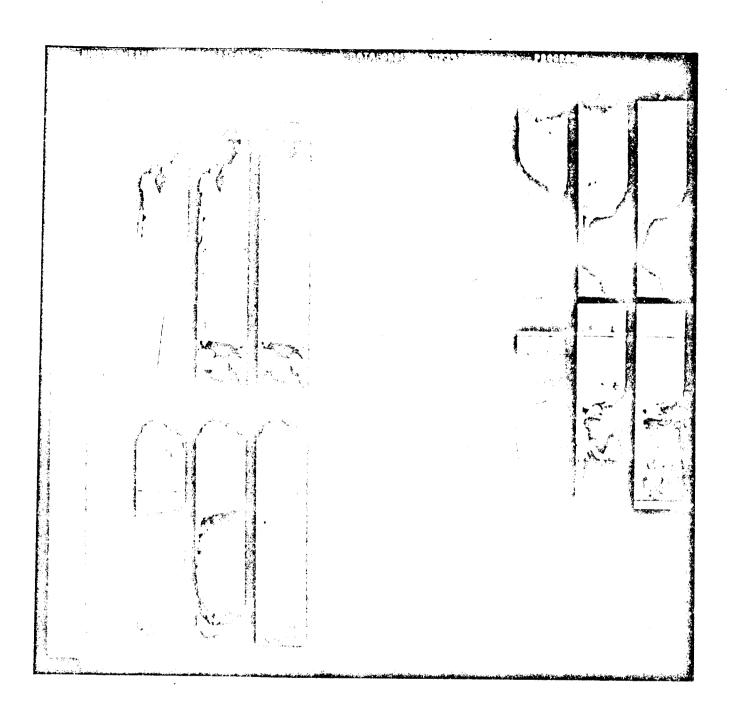


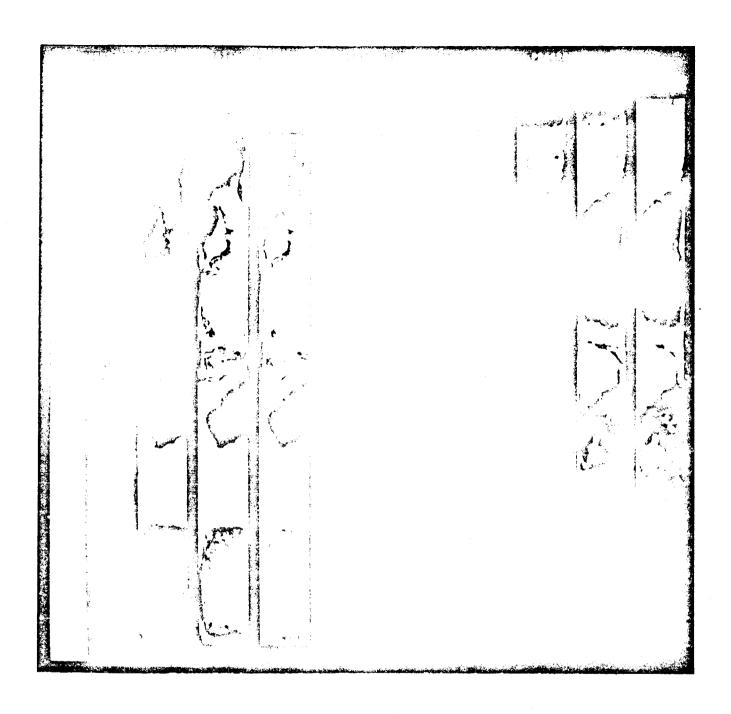


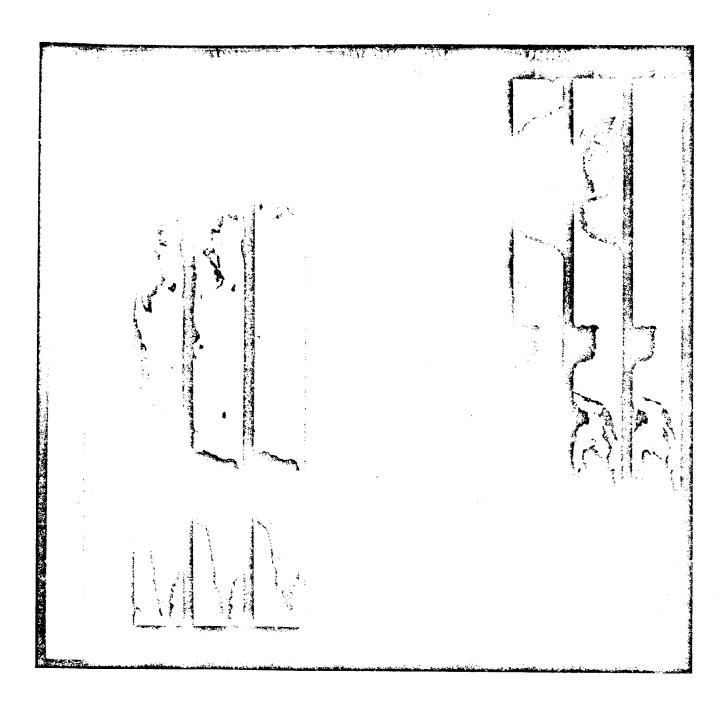


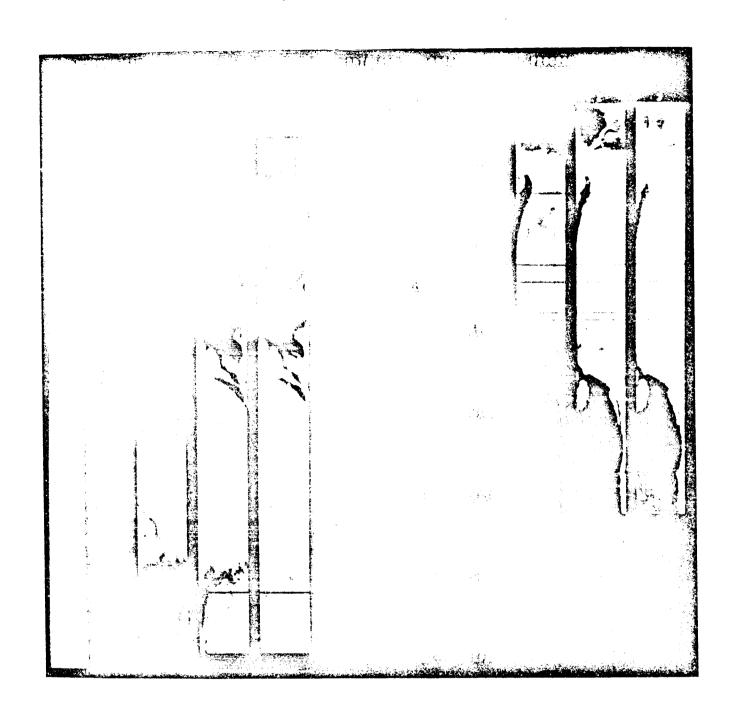


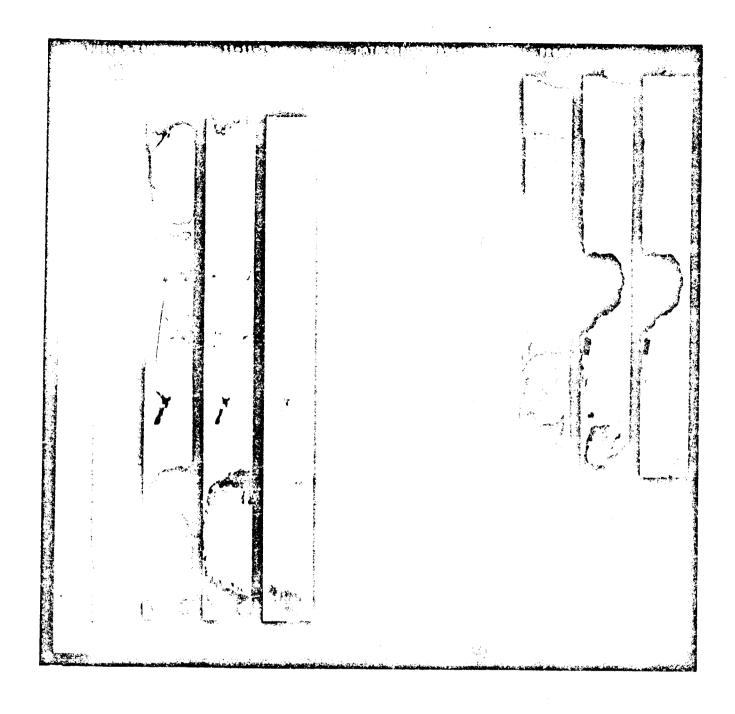


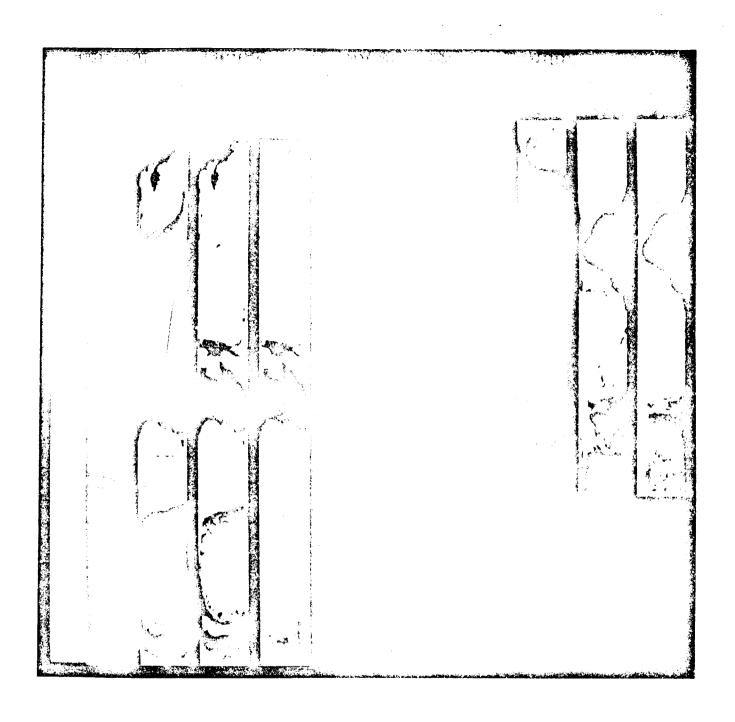


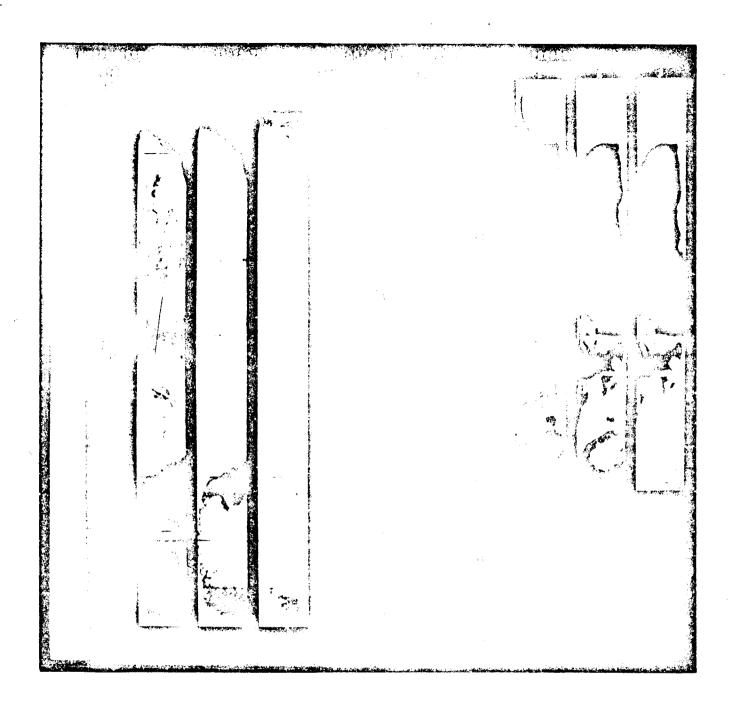




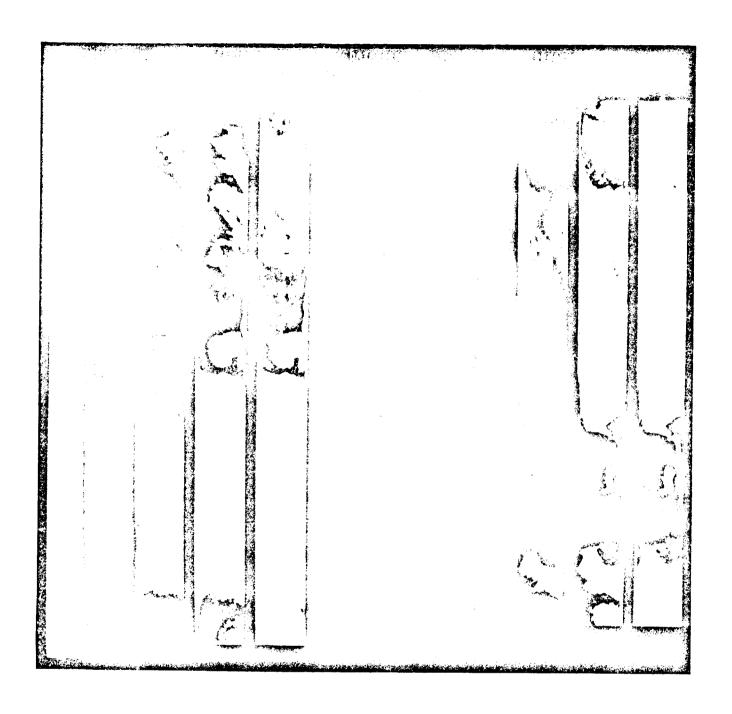


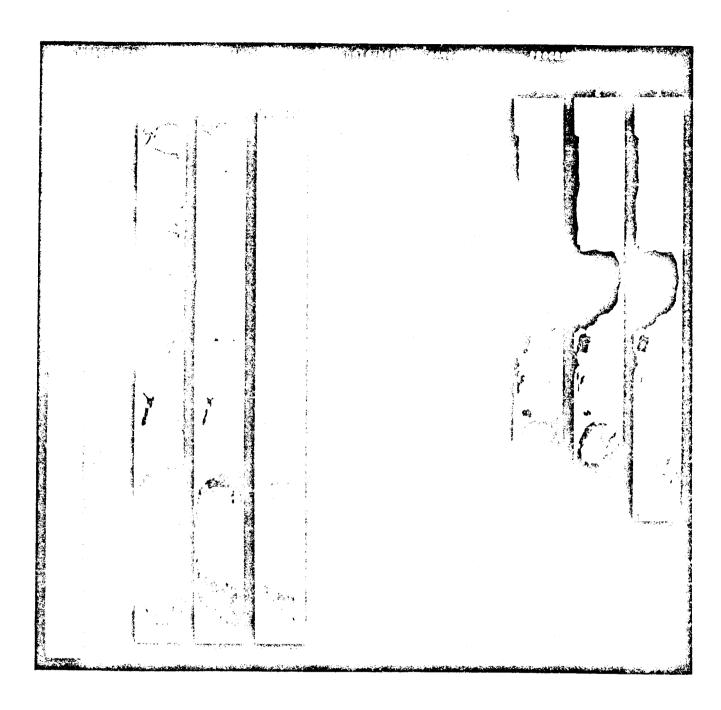


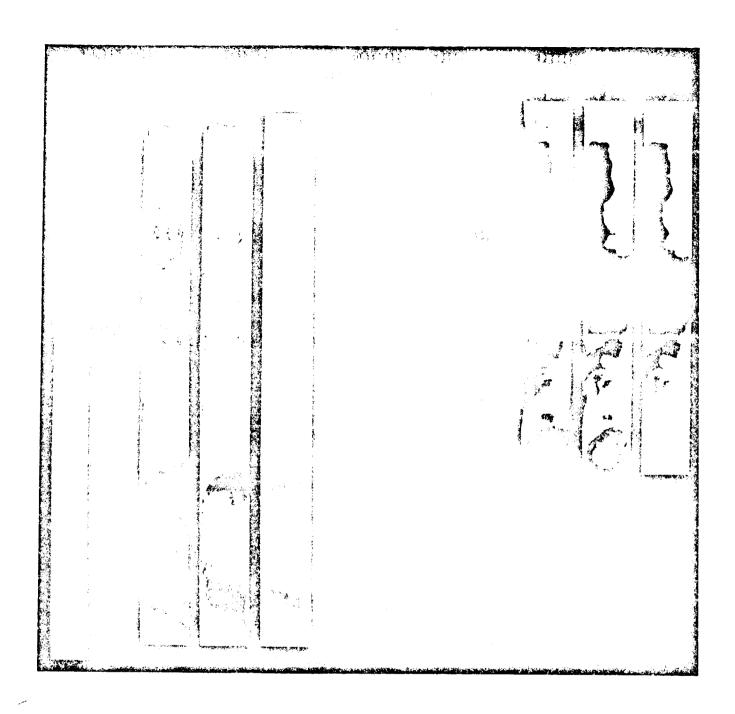


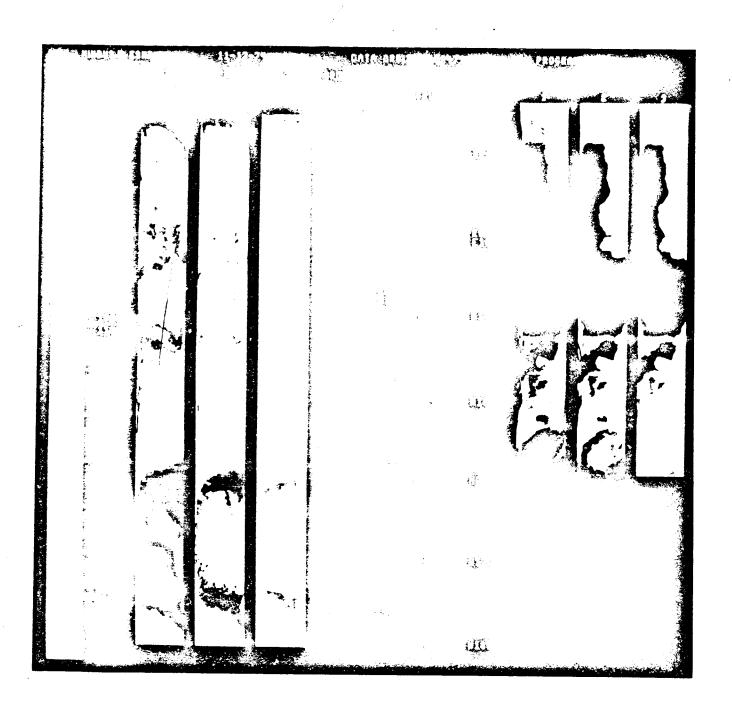


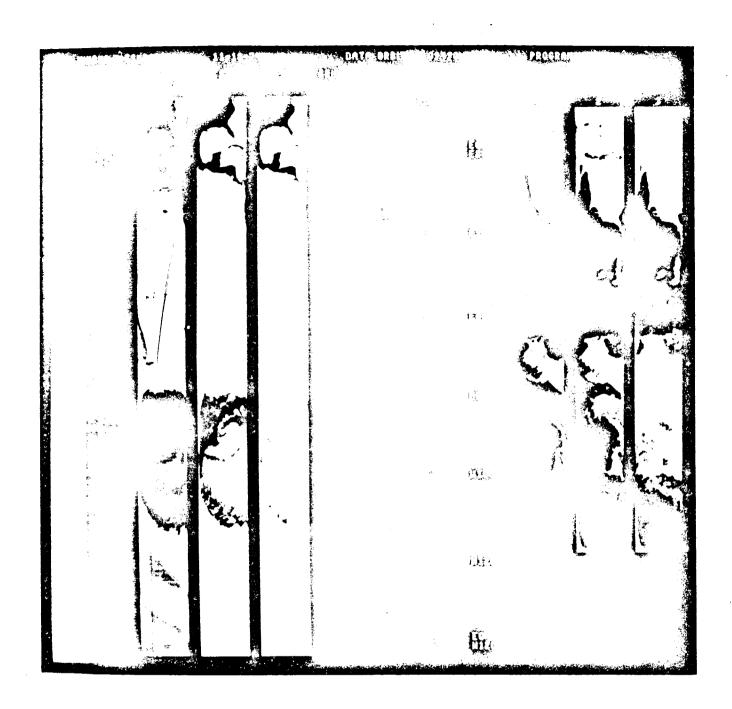


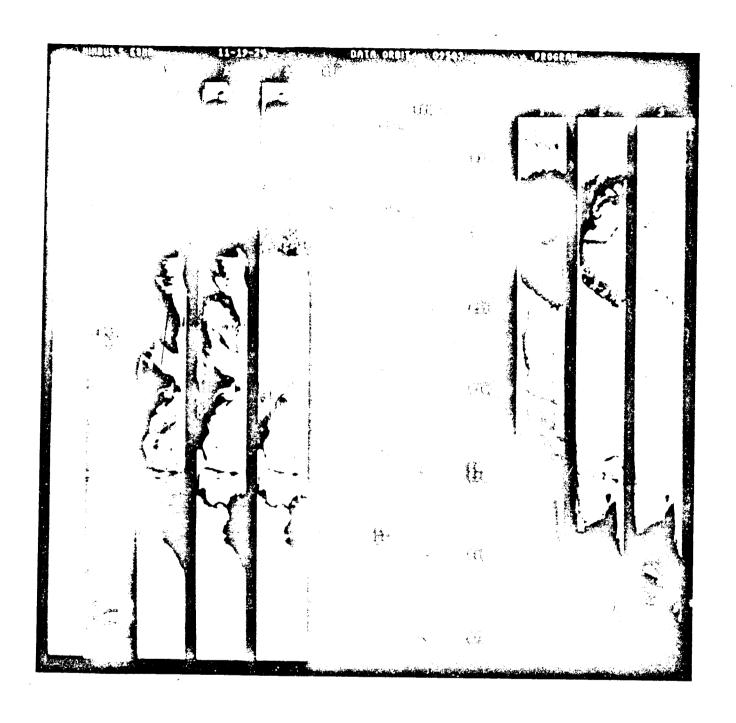


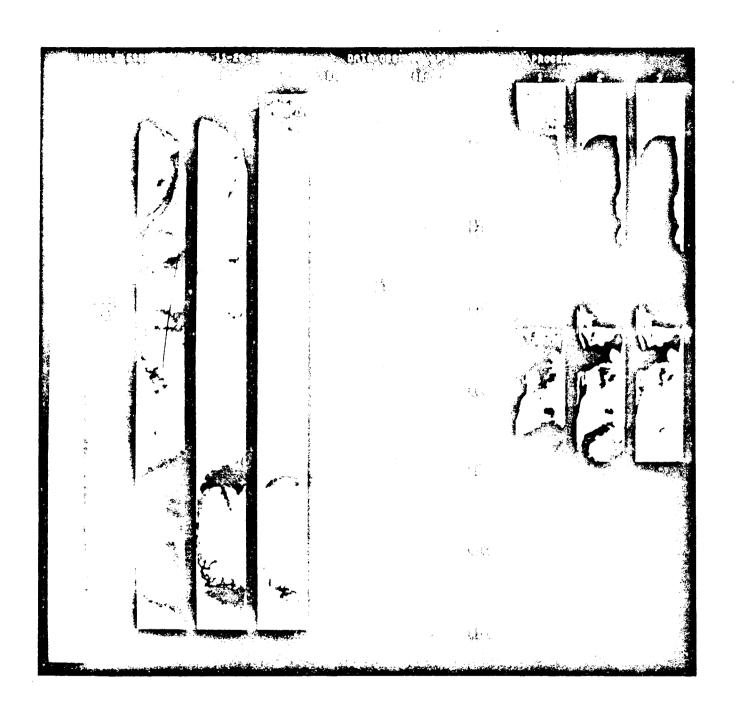


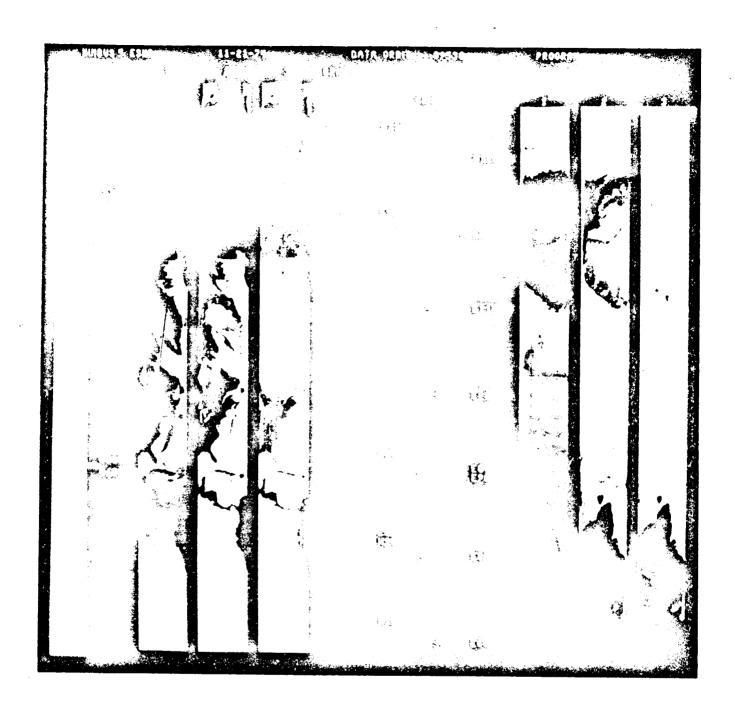




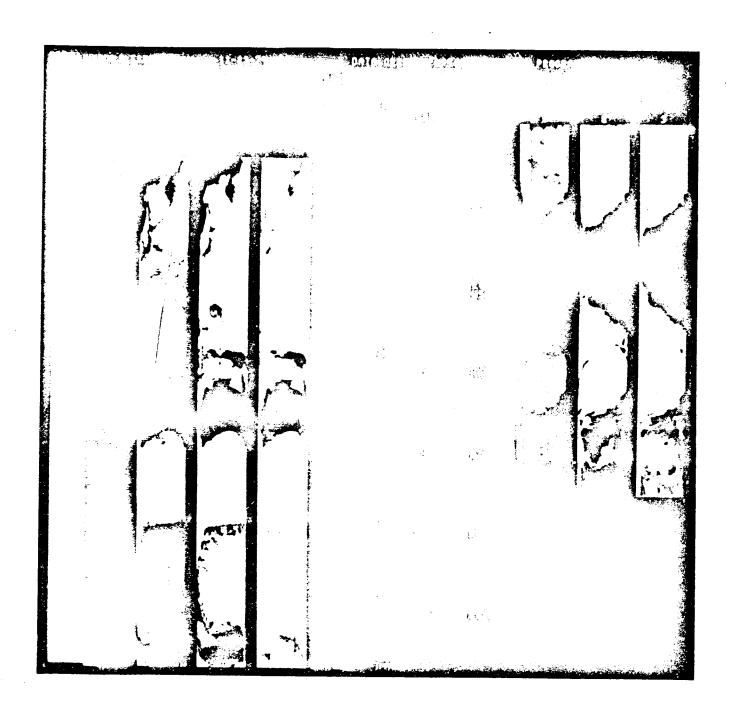


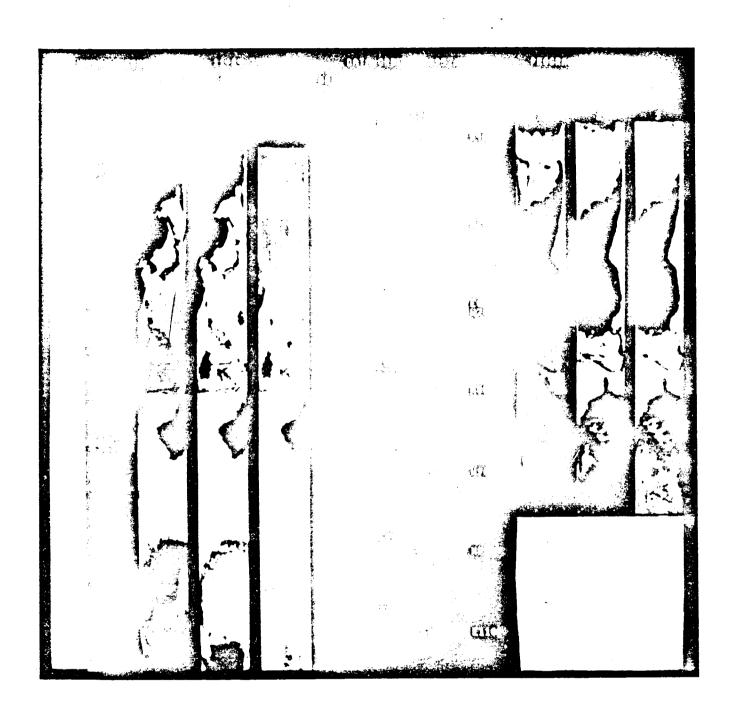


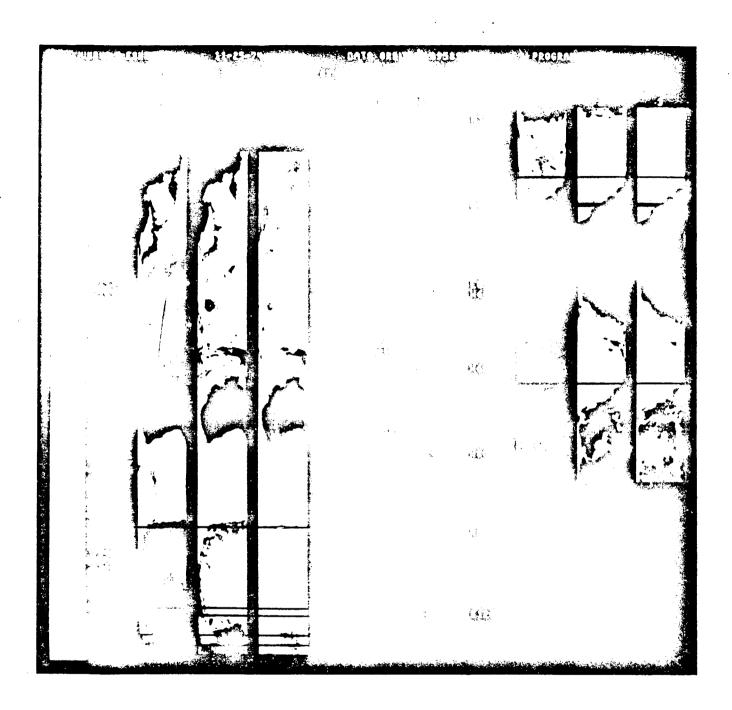


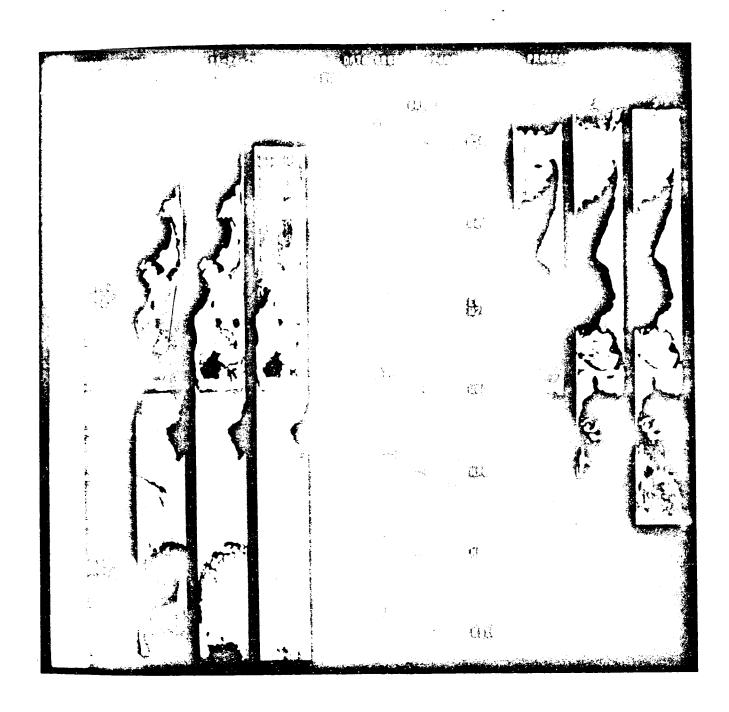


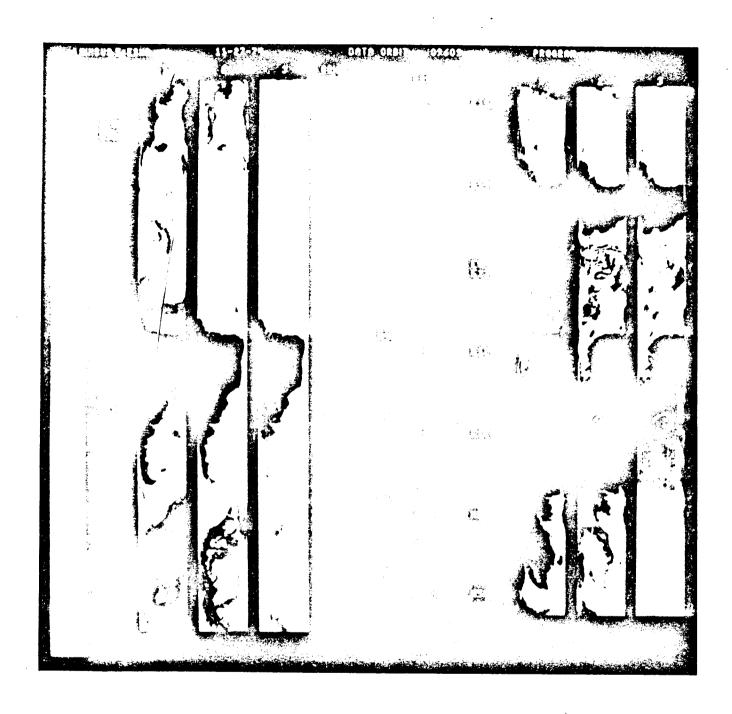


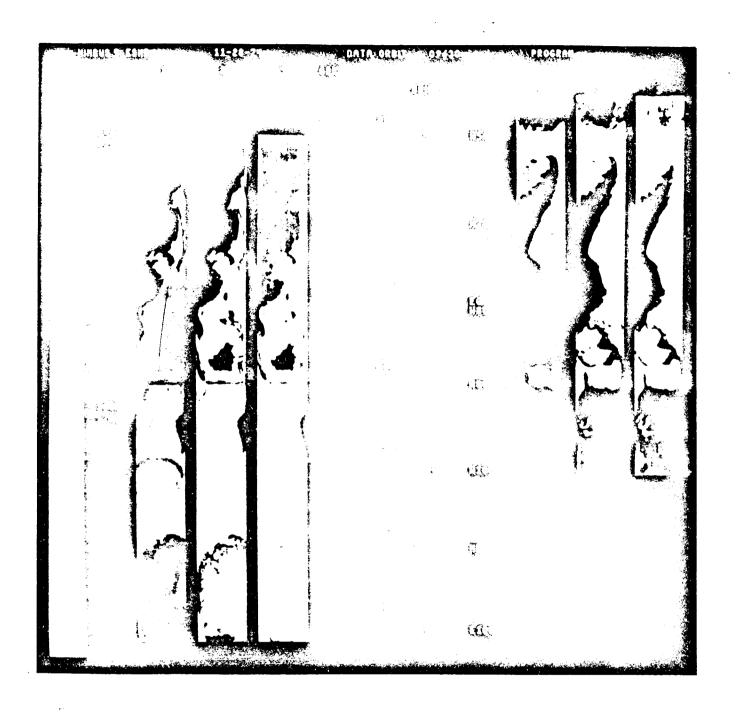


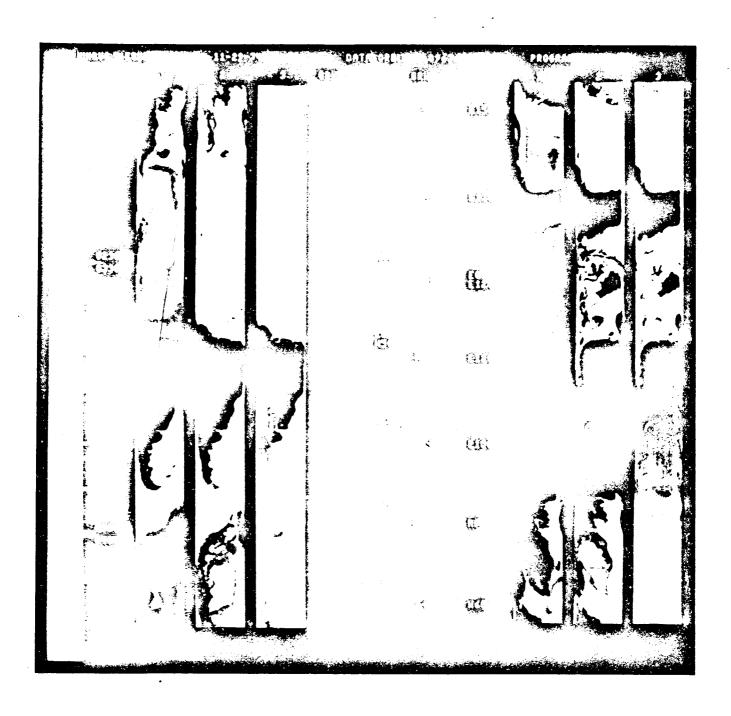




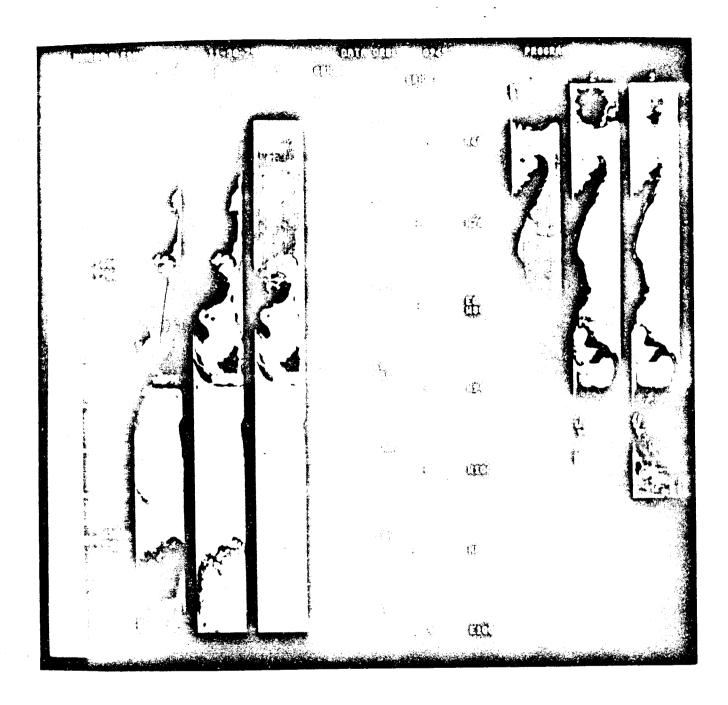








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3-65

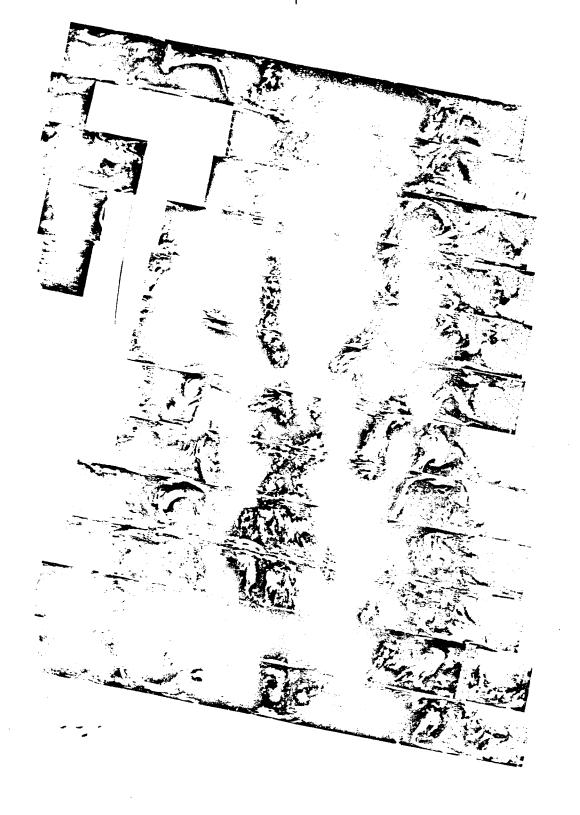
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Table 4-1

Latitude Versus Minutes From Ascending or Descending Node

Latitude from	Minutes and Seconds
AN or DN	from AN or DN
0	0:00
5	1:31
10	3:02
j <b>15</b>	4:33
20	6:03
<b>25</b>	<b>7:34</b>
<b>j 30</b>	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	<b>16:44</b>
60	18:18
65	<b>19:</b> 52
70	21:33
<b> 75</b>	23:26
<b>7</b> 8	24:44
80.1	<b>26 :49</b>
<b>7</b> 8	29:00
<b>7</b> 5	30:09
70	31:51
65	33:35

SECTION 4.1
TEMPERATURE HUMIDITY INFRARED RADIOMETER
NIGHTTIME MONTAGES



8850 8849 884 I OCTOBER 1974 



8850 8849 8848 I OCTOBER 1974 6.7 µm 

8863 8862 886l 2 OCTOBER 1974 11.5 µm 

 $m{g} = m{g} + m{g$ 



8859 6.7 µm 8865 9988



887I 8870

3 OCTOBER 1974 11.5 µm



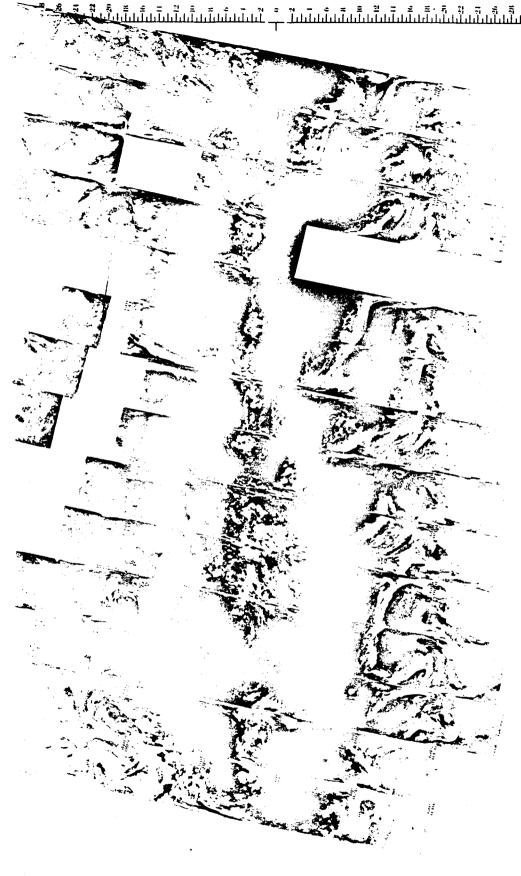
3 OCTOBER 1974 6.7 µm 



សែរវិស្សីសុវិស្សីសុវិស្សីសុវិស្សីសុវិស្សីសុវិស្សិស្ស 🚠 វិស្សិស្សិស្សីសុវិស្សីសុវិស្សីសុវិស្សីសុវិស្សី 🕏



, 8889 8888 b. 4 OCTOBER 1974 6.7 μm 



5 OCTOBER 1974

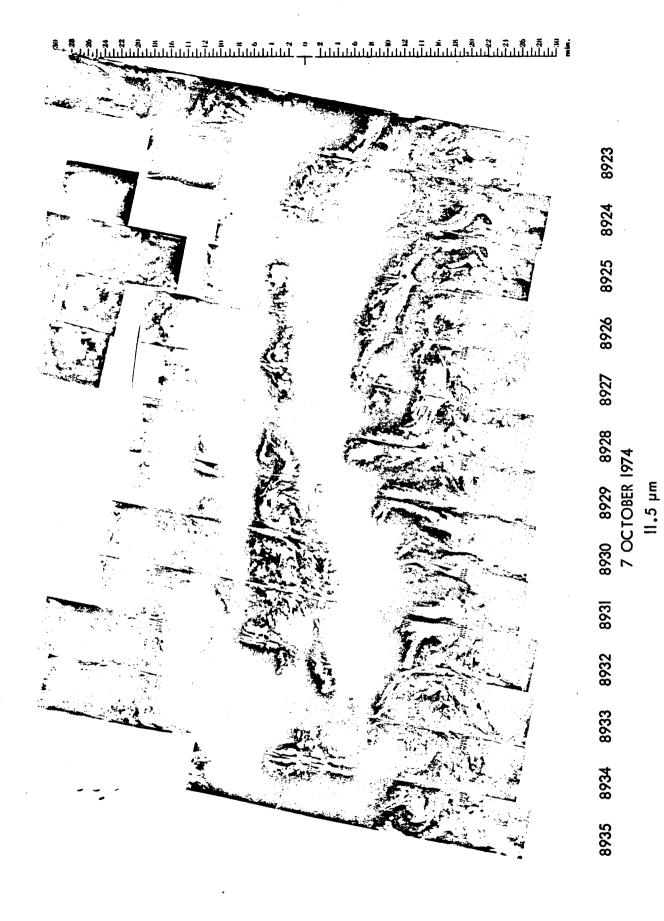


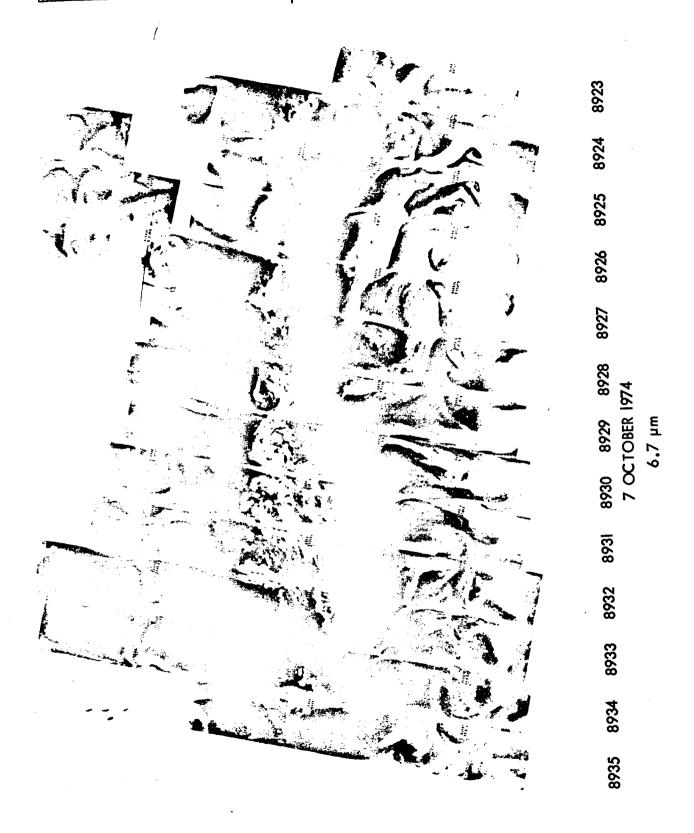
5 OCTOBER 1974 6.7 µm 8904 8903 



8919 892I 8922

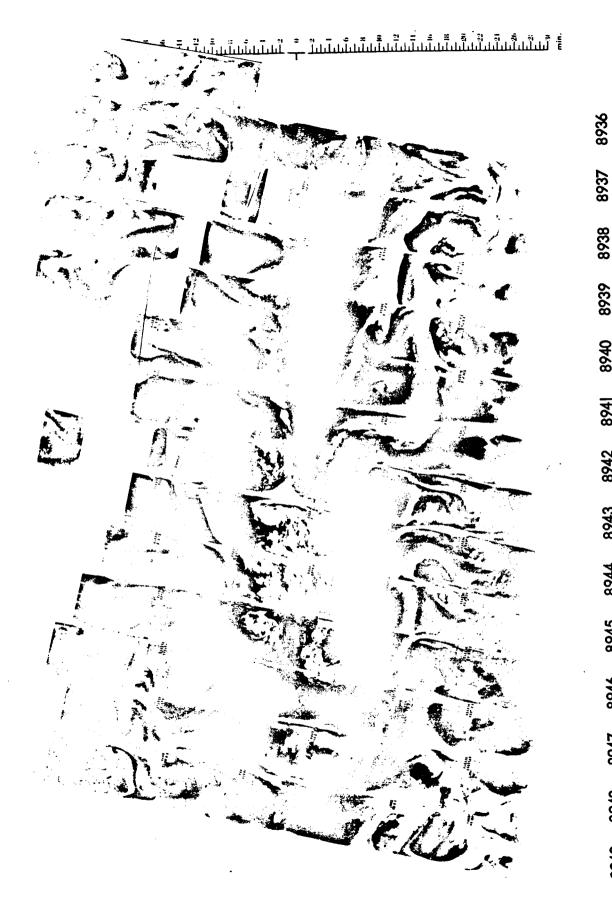




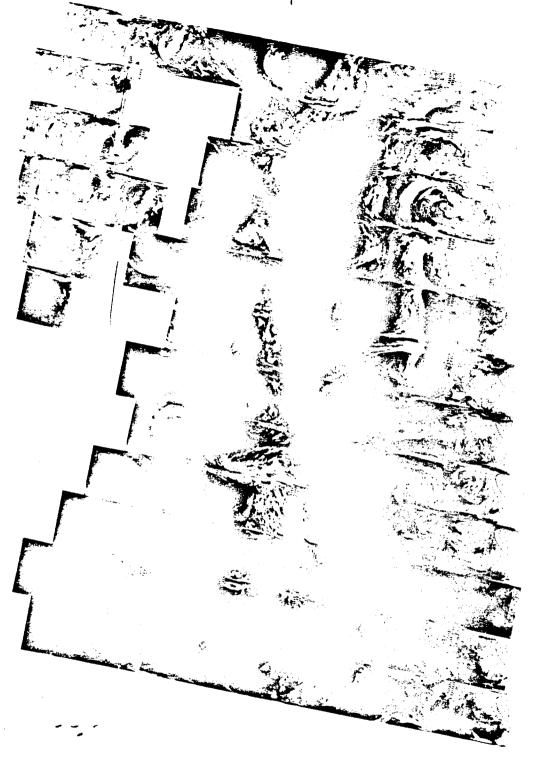




8 OCTOBER 1974 11.5 µm 



4 8943 89428 OCTOBER 19746.7 μm 



8957 8956 895. 9 OCTOBER 1974 II.5 µm I 



8957 8956 8955 9 OCTOBER 1974 6.7 µm 



II.5 µm

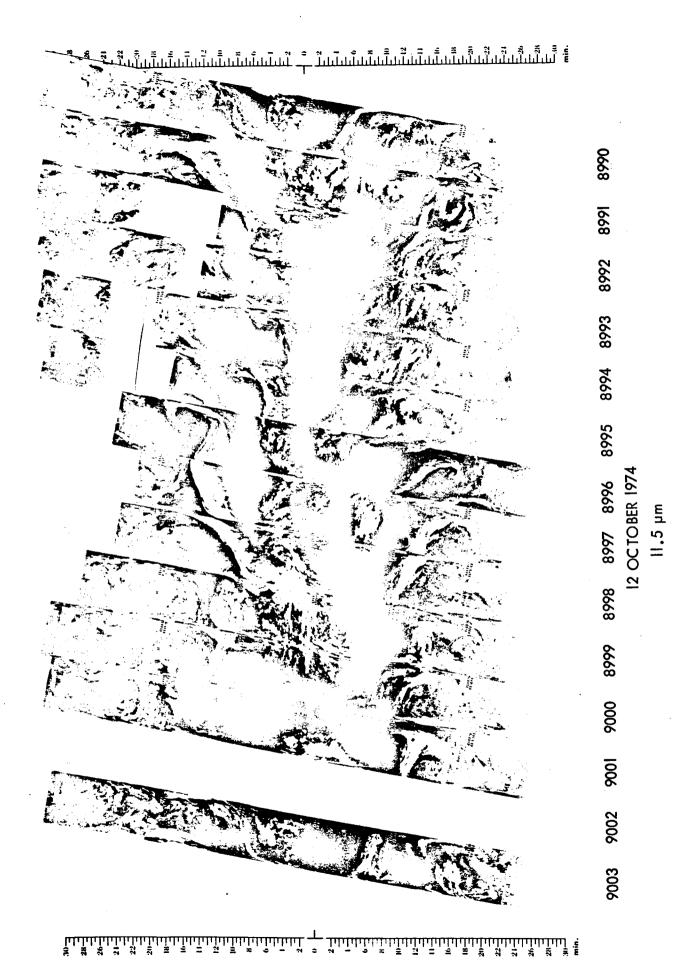




# $\frac{1}{2} \frac{1}{2} \frac{1}$



8<del>88</del> 34 8983 8982 II OCTOBER 1974 6.7 µm 



4-26

8 8997 8996 1 12 OC TOBER 1974 <u>00</u> 

 $rac{1}{2}$   $rac{1}{2}$  ra

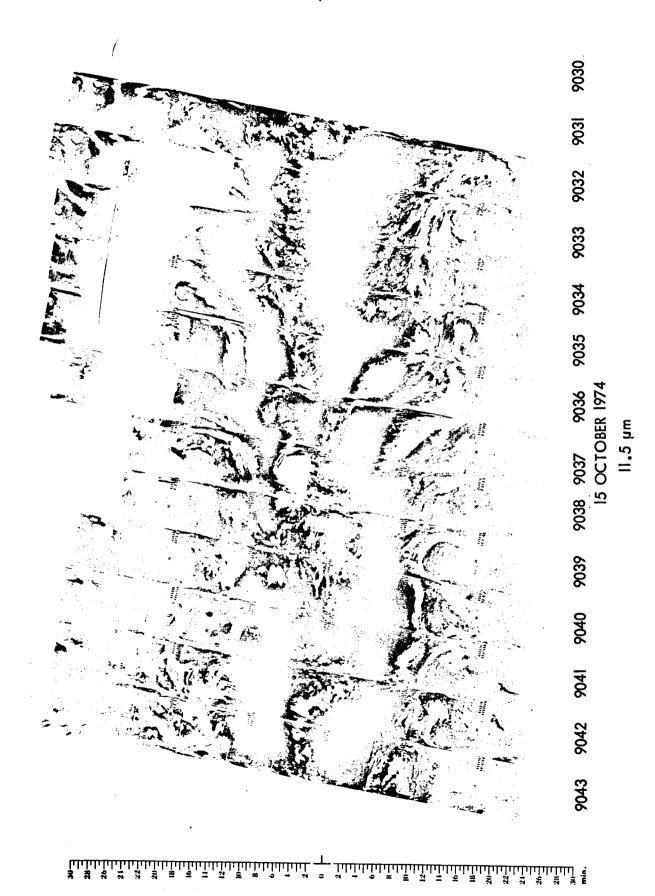


900% 7011 9010 9009 13 OC TOBER 1974 II.5 µm <del>1</del>06 

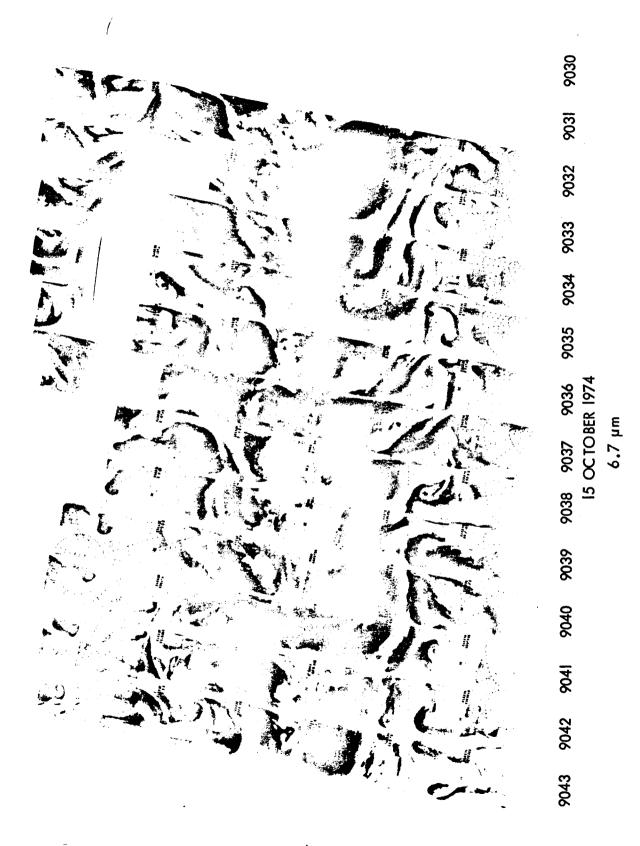




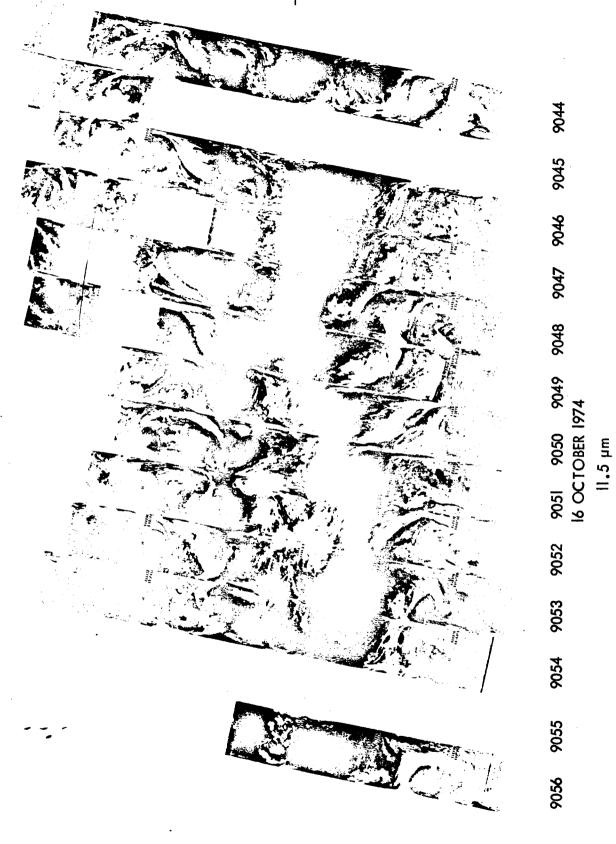


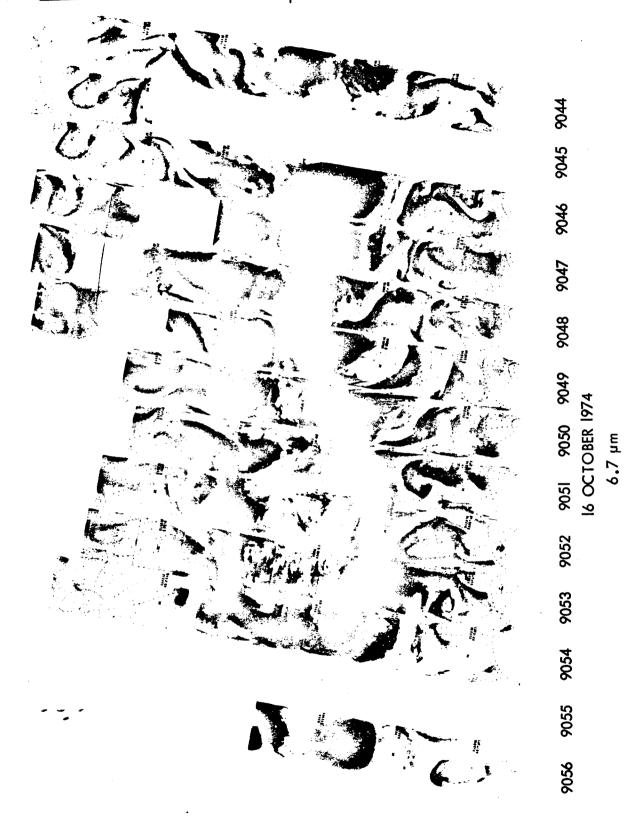


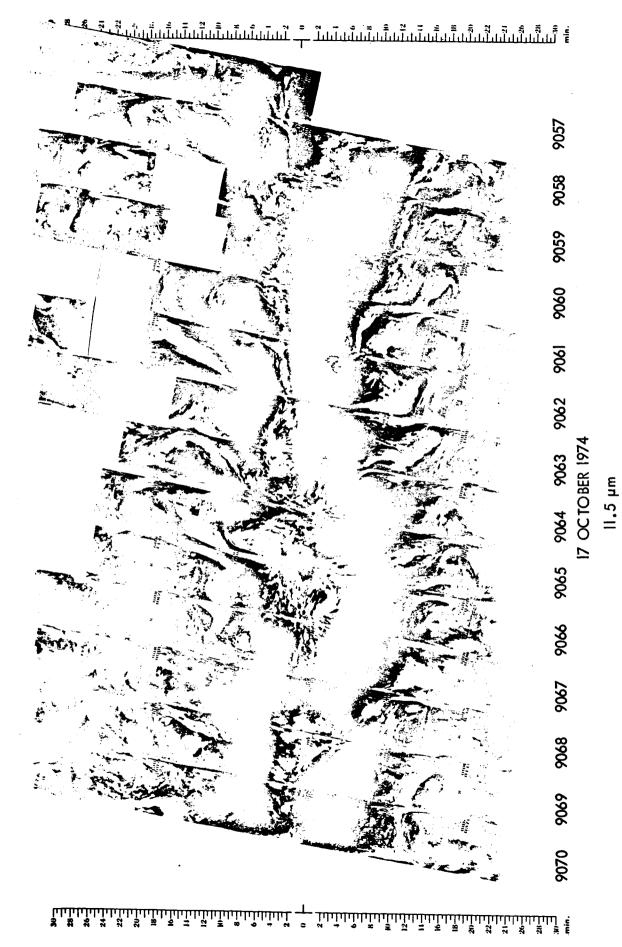
4-32



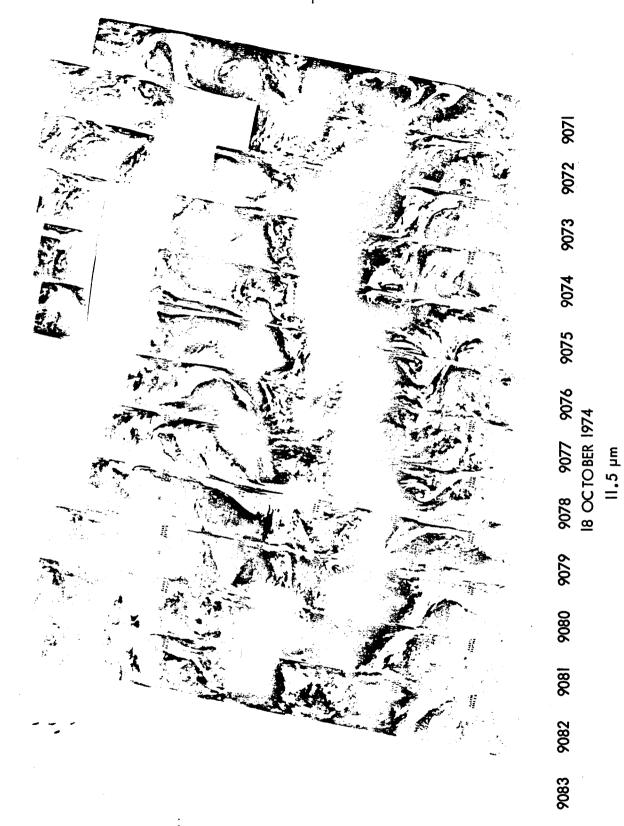
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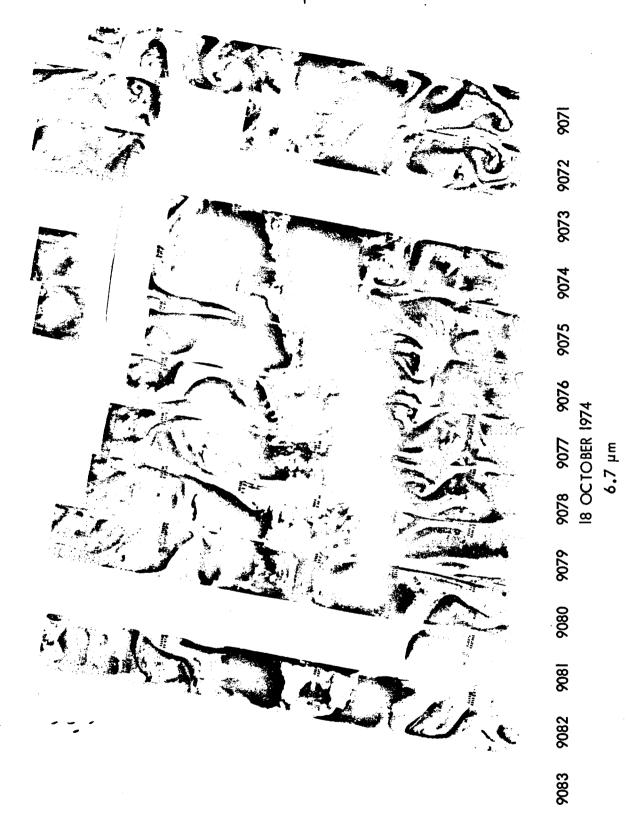


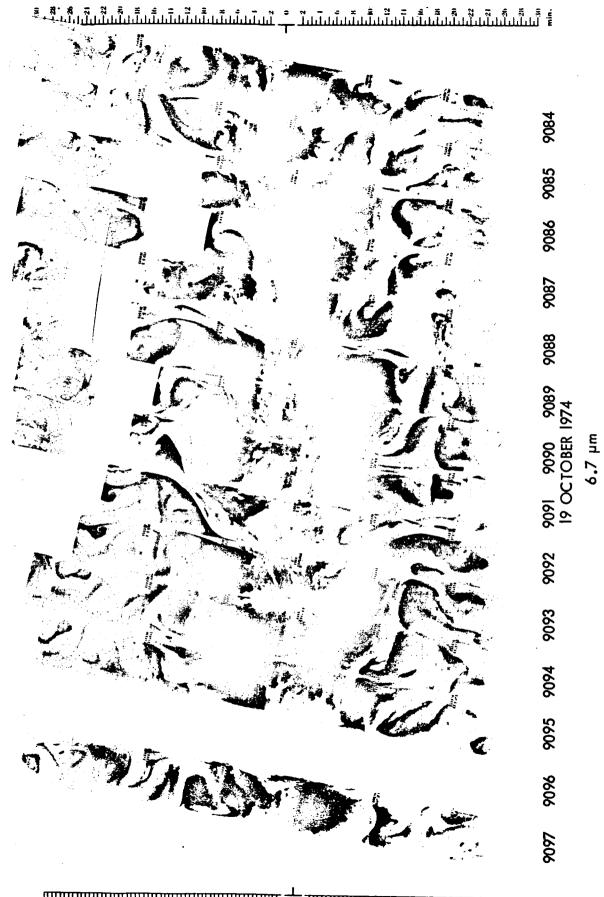




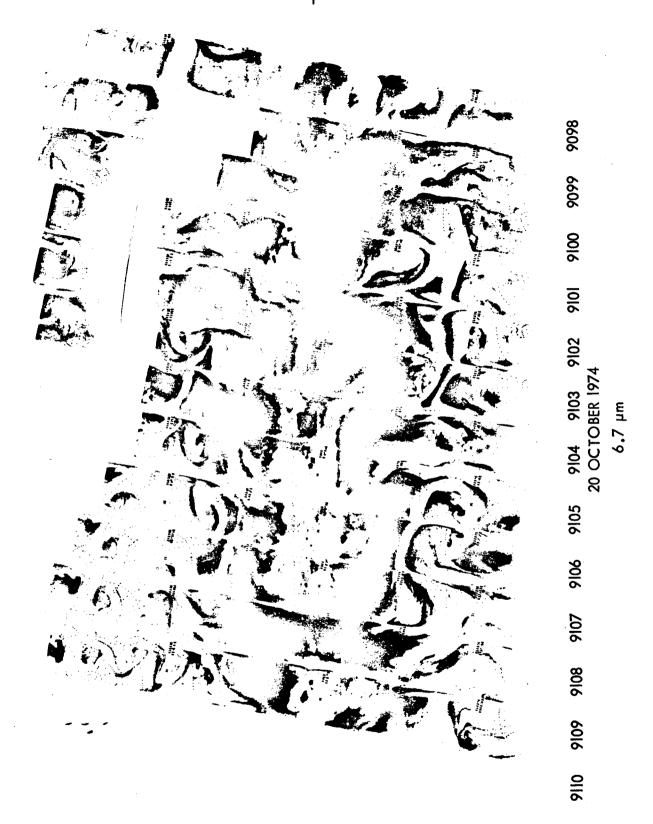
4-36



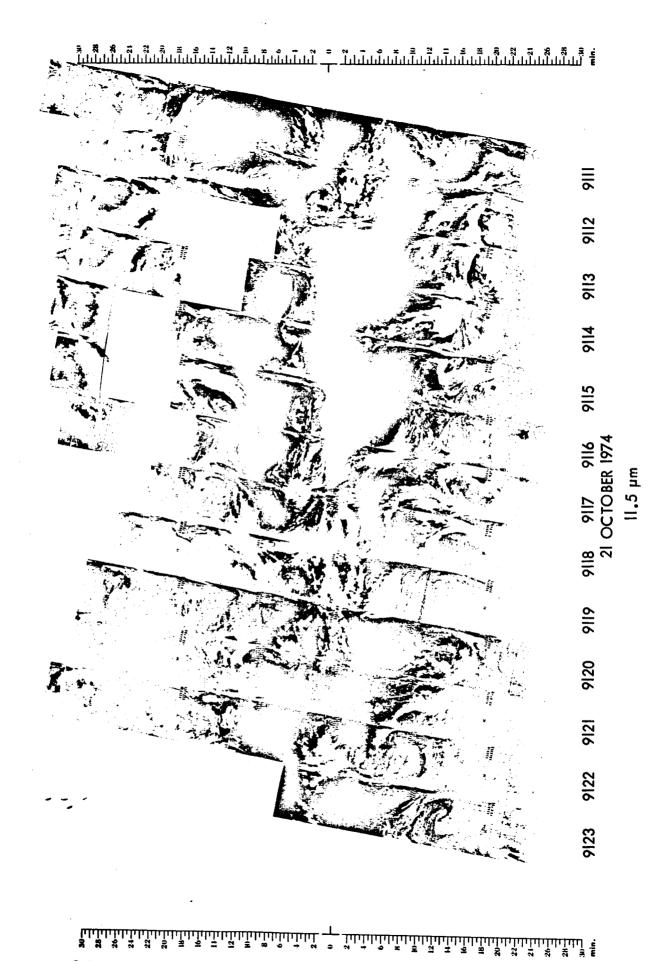


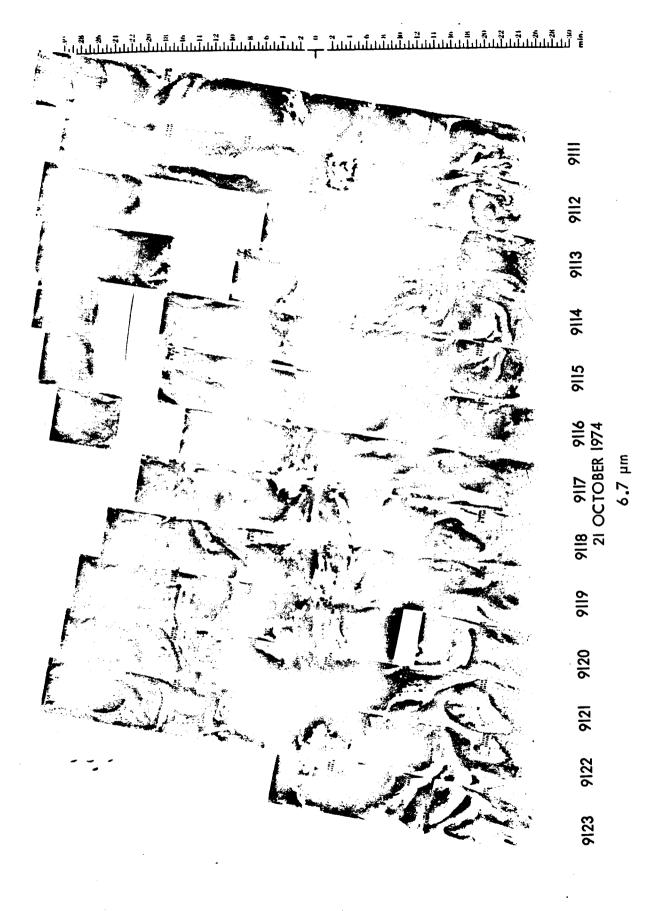


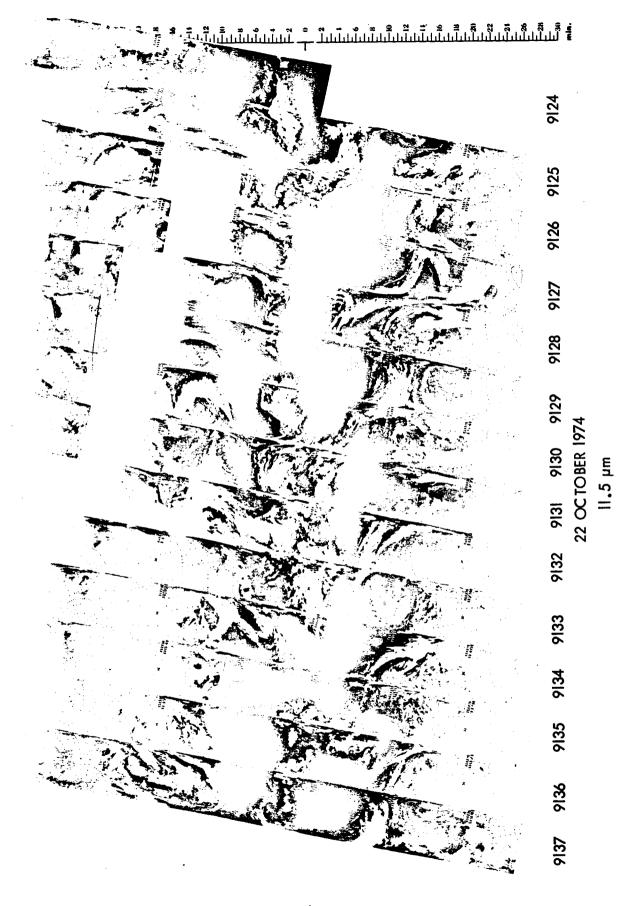




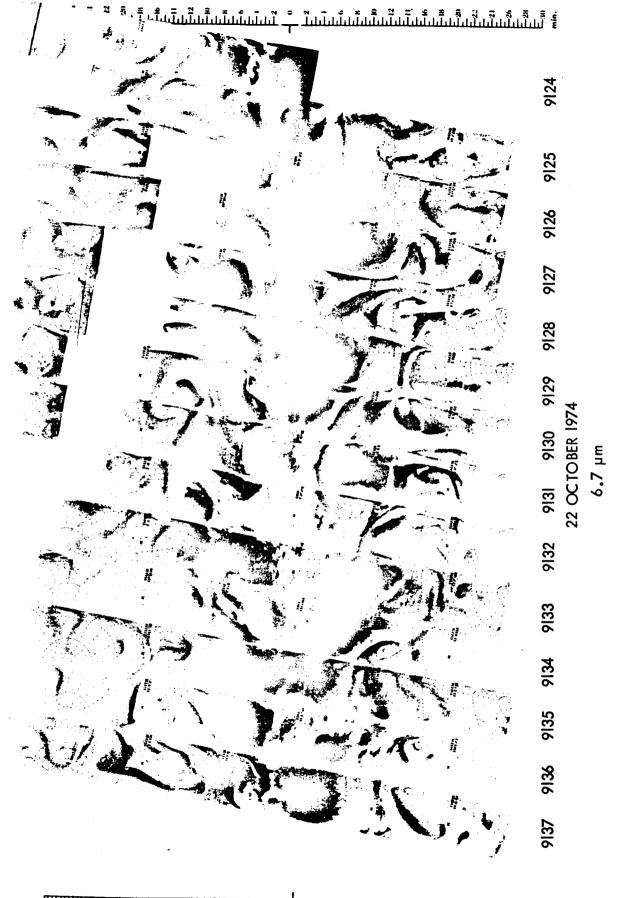
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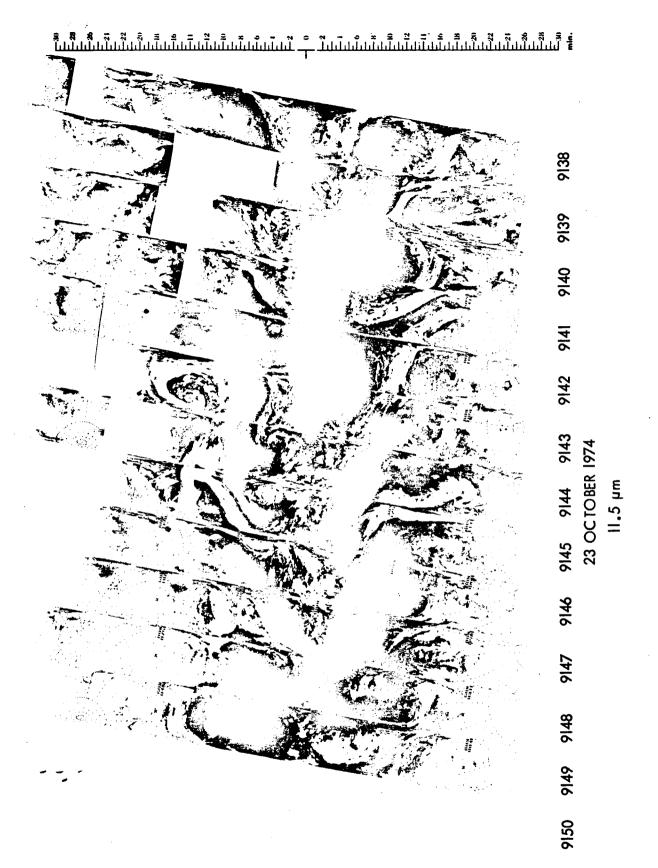




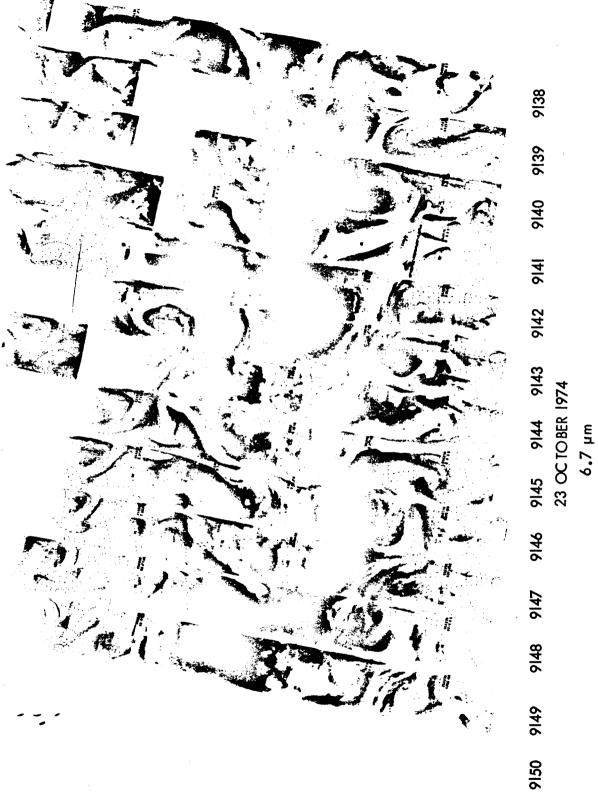


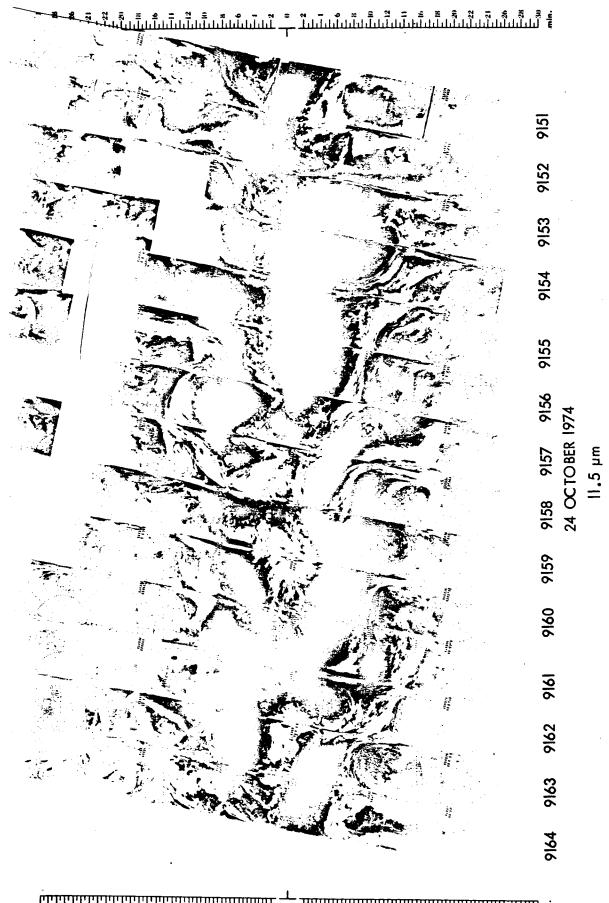
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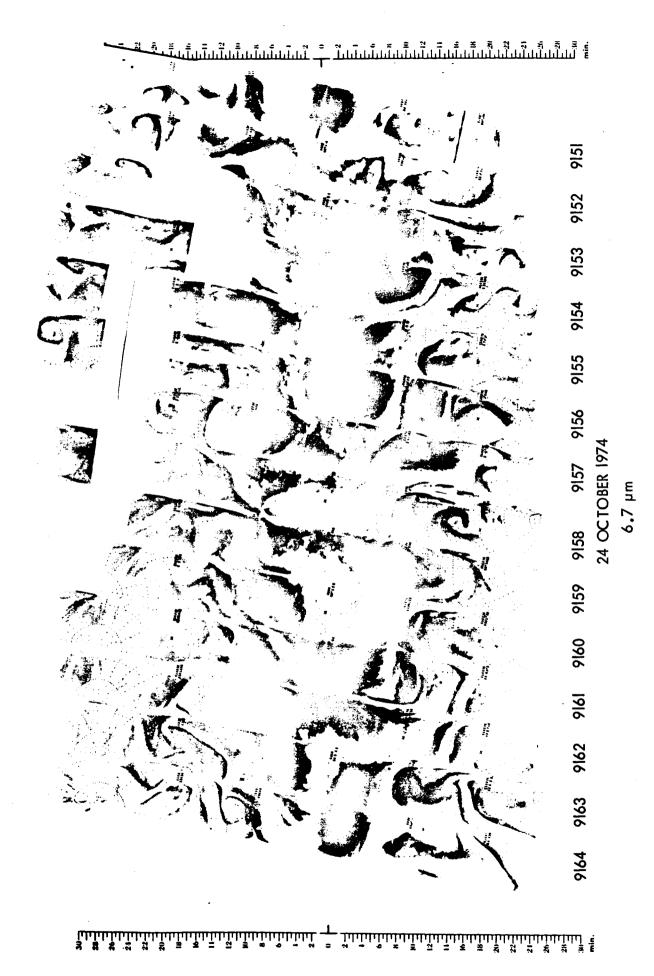




#### ្នុំក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ ស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុងស្នាក់ក្នុង

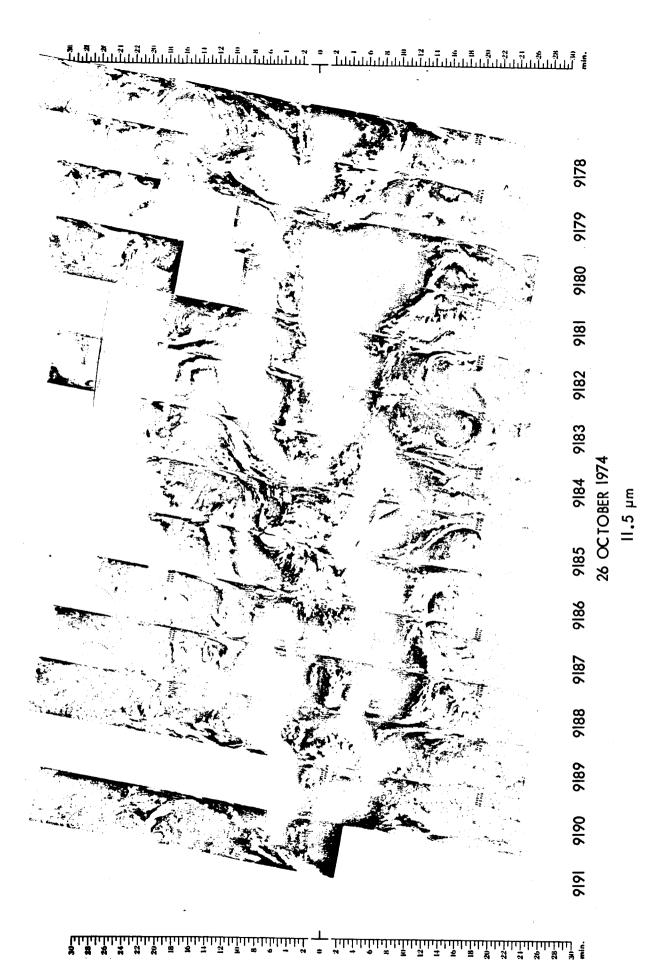




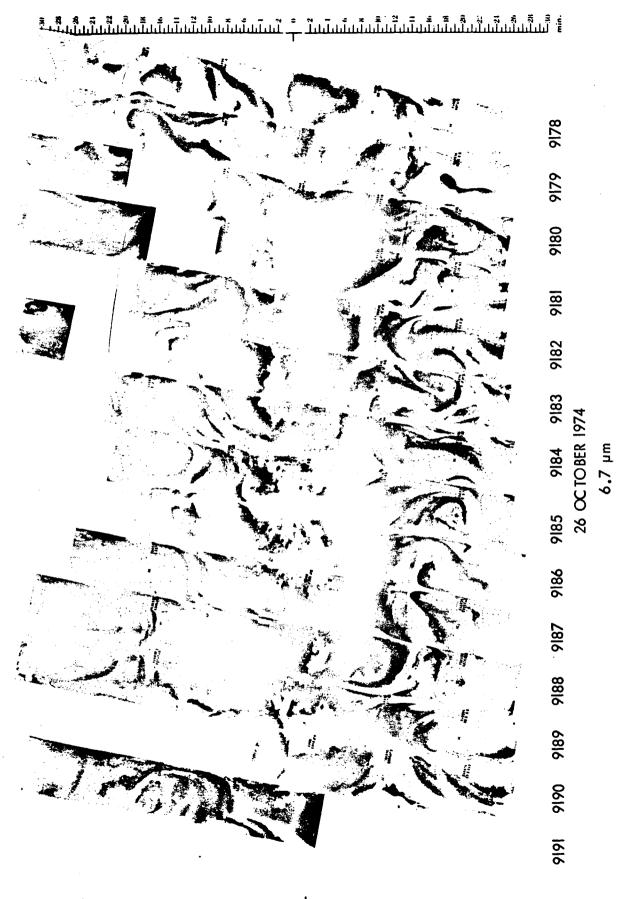


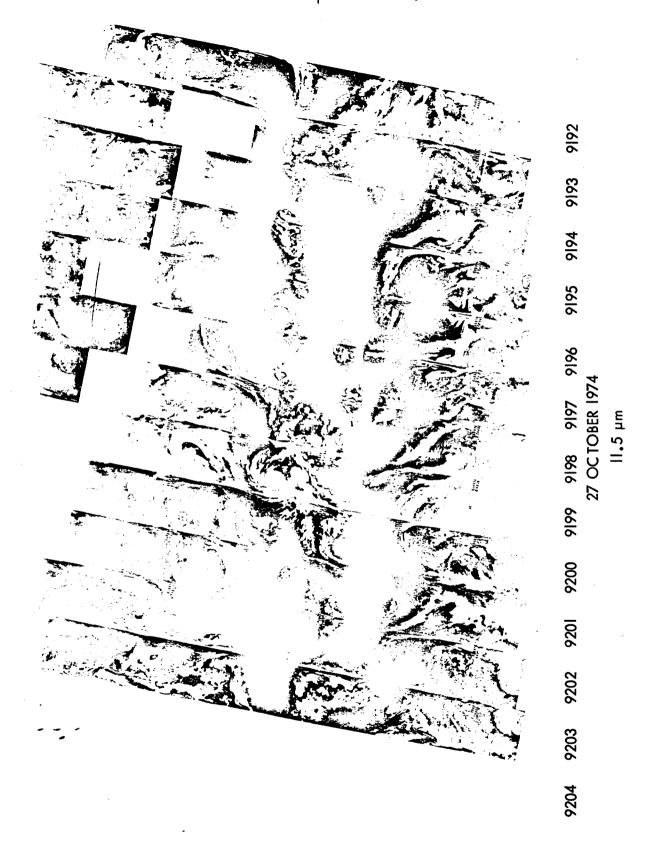
4-51

# 9172 9171 9170 25 OCTOBER 1974 11.5 µm



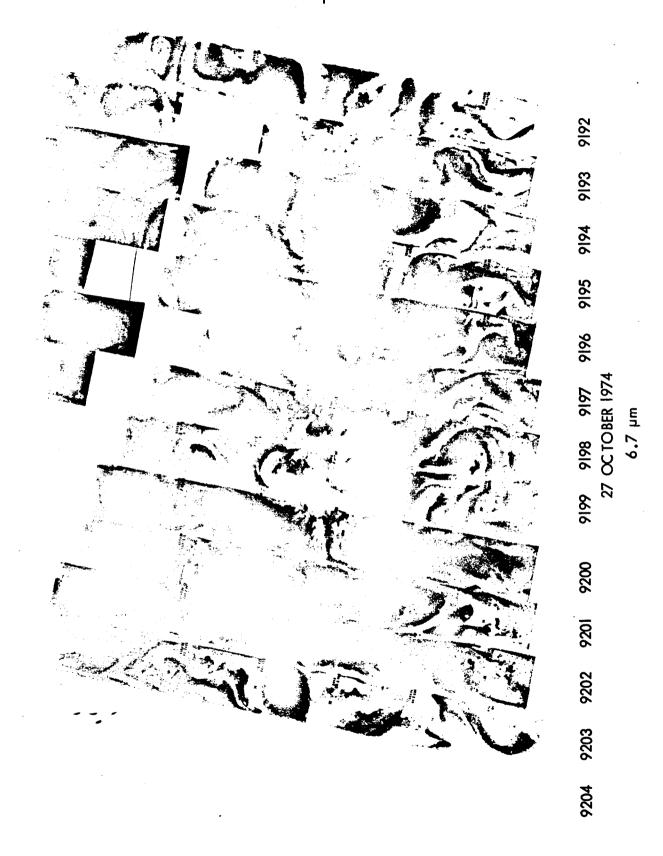
4-54

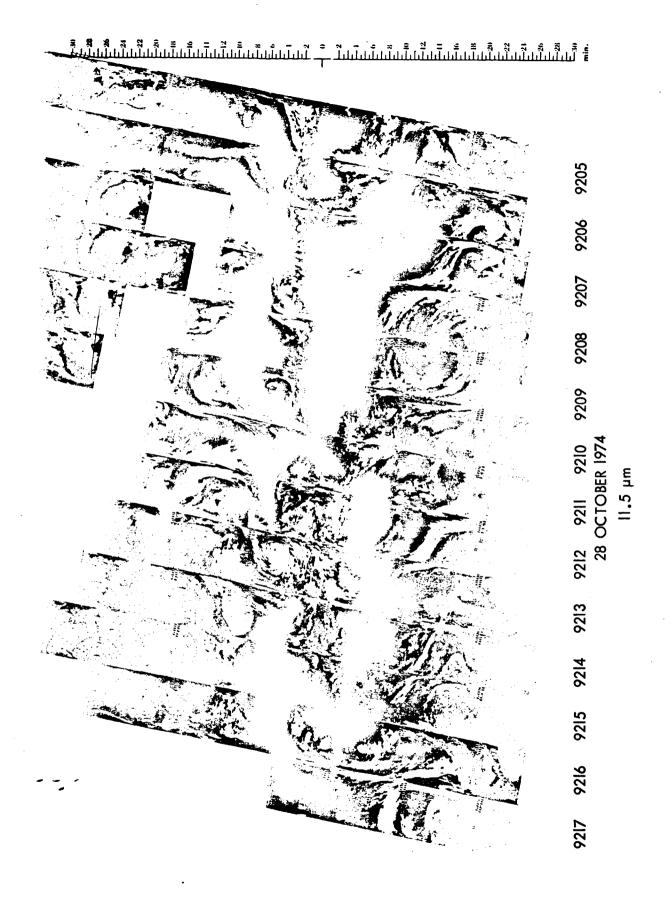


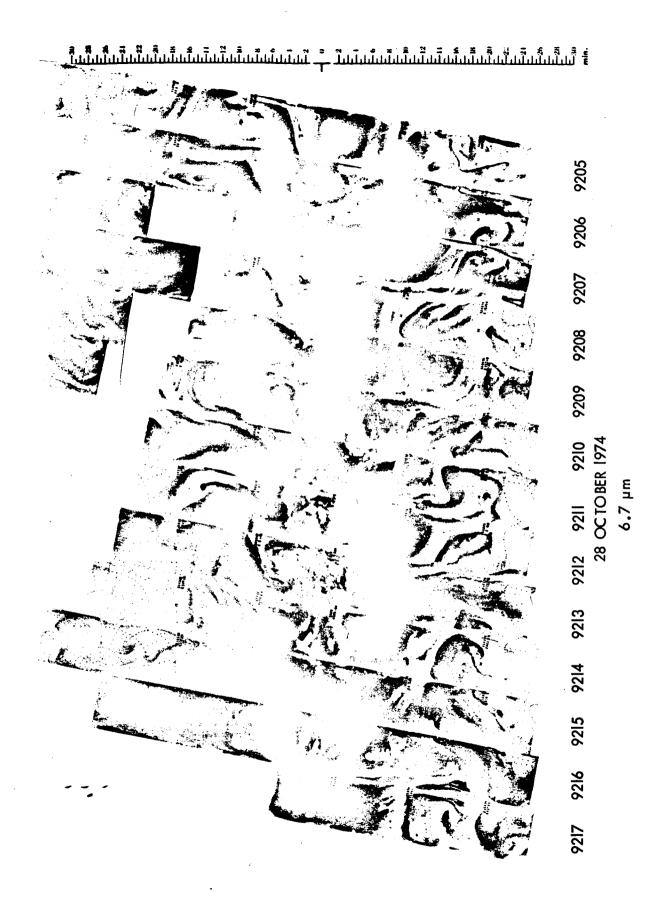


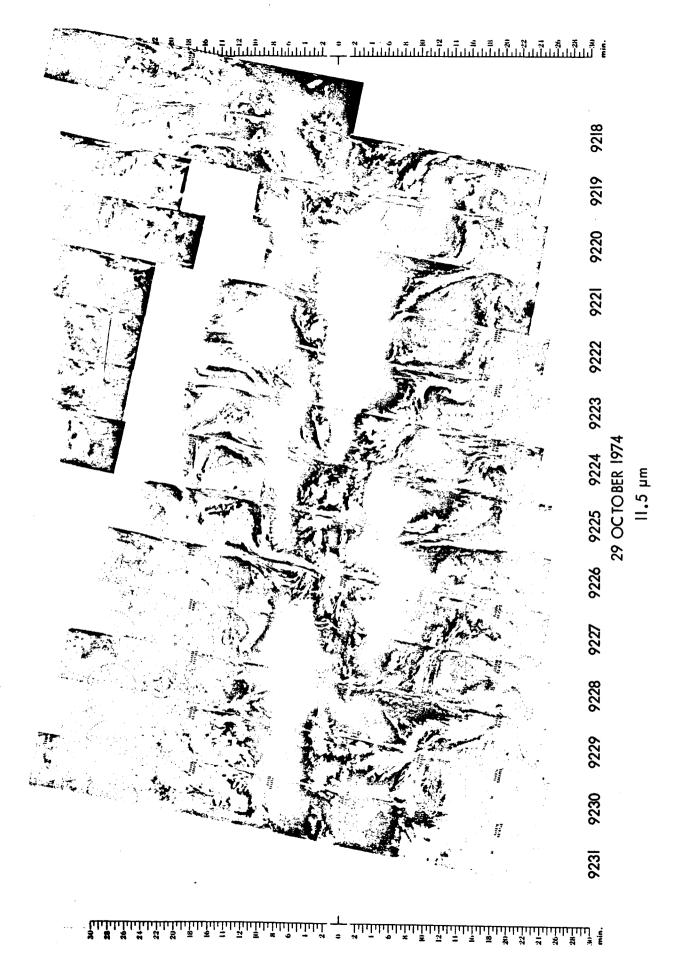
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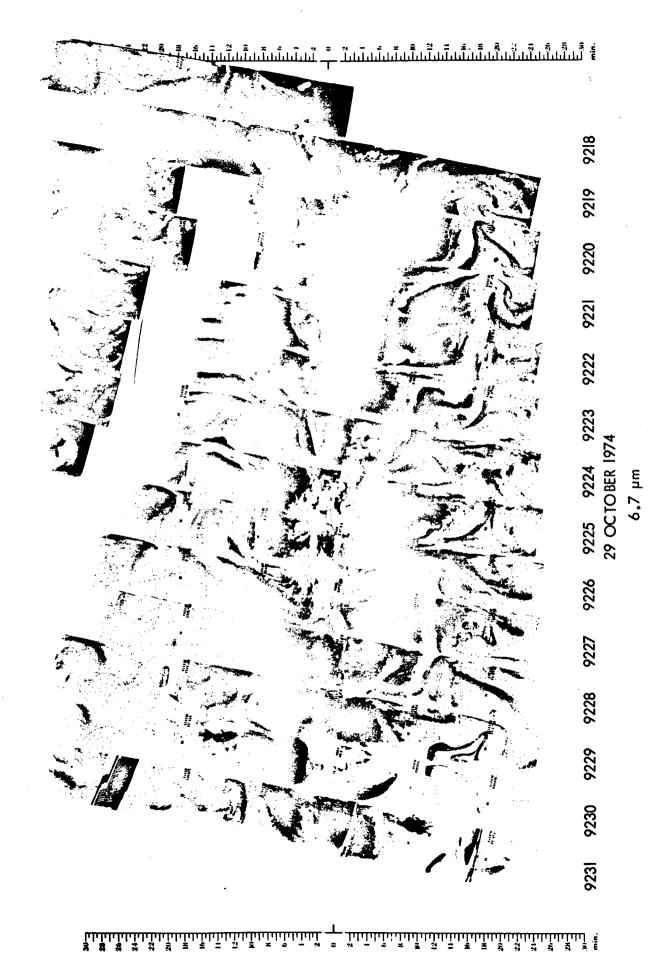
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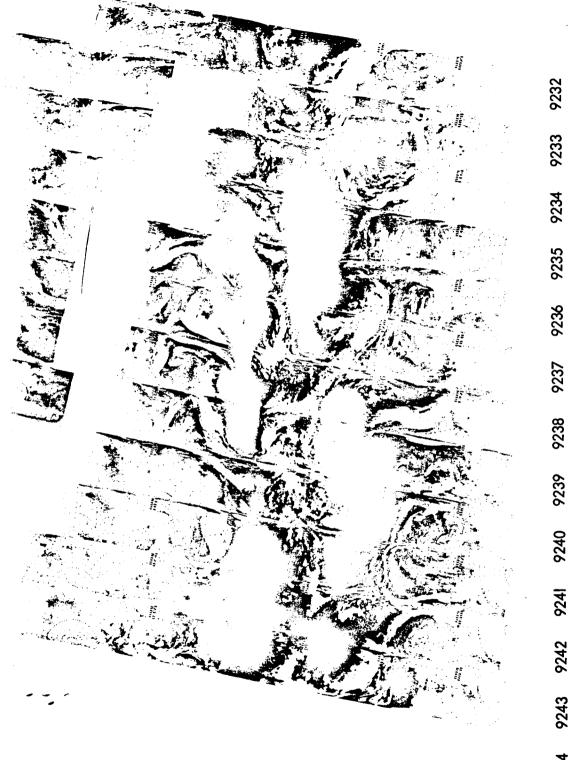






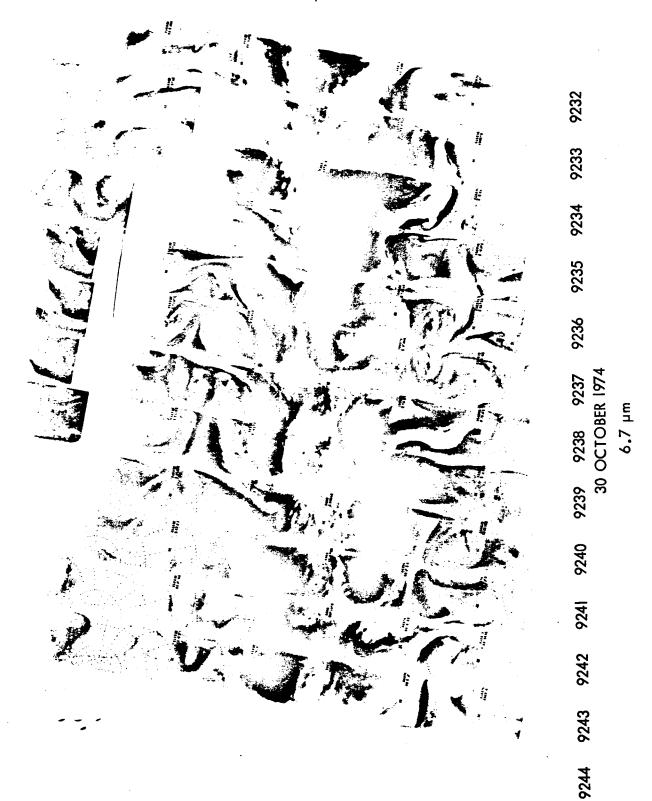


4-61



39 9238 9237 30 OC TO BER 1974 II.5 µm 924| 9242 9243 9244

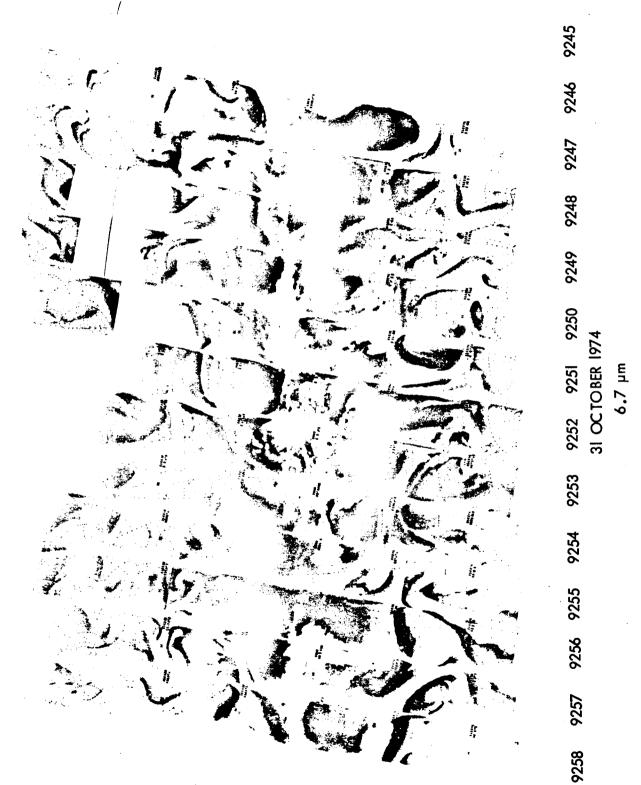
# **ិស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រីស្ត្រី** ទី



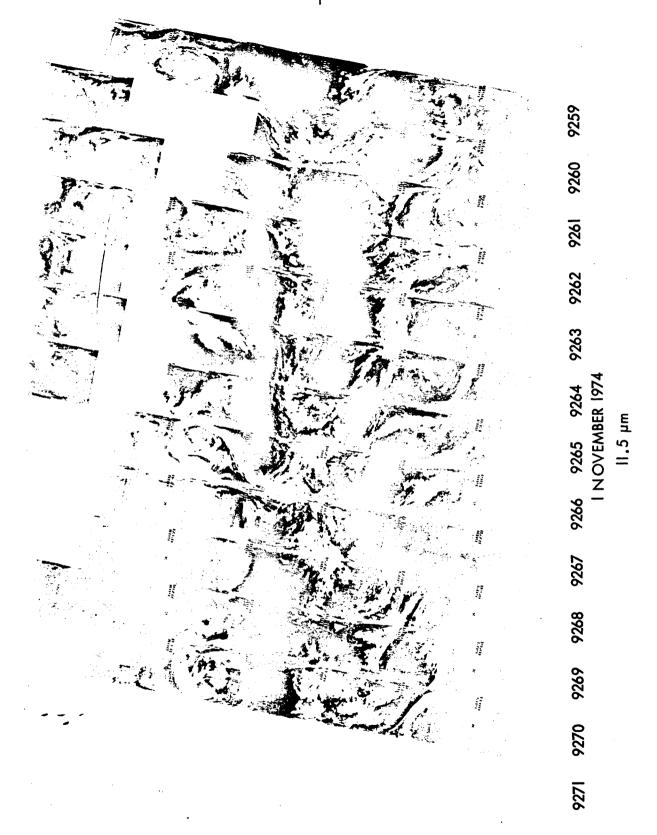
**विकास कर्म के अपने के** कि

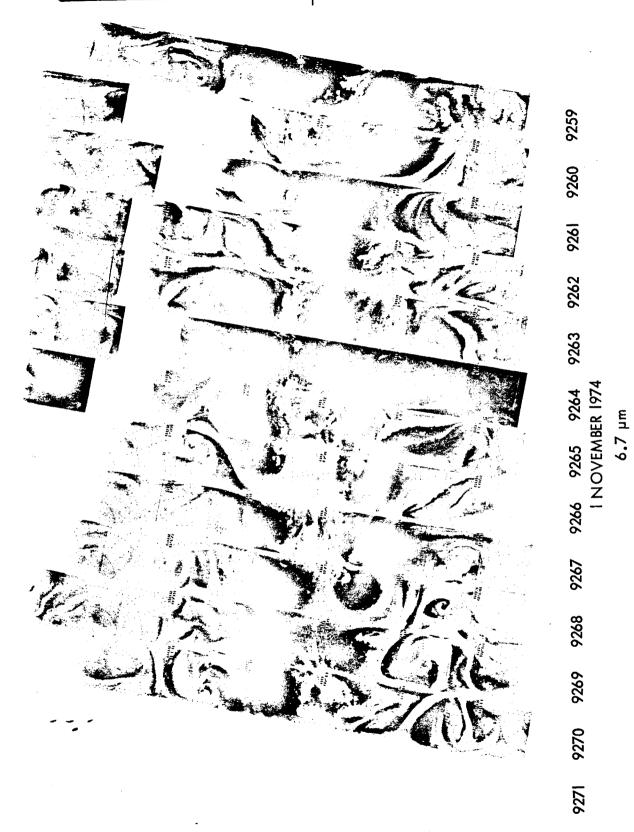
11.5 µm

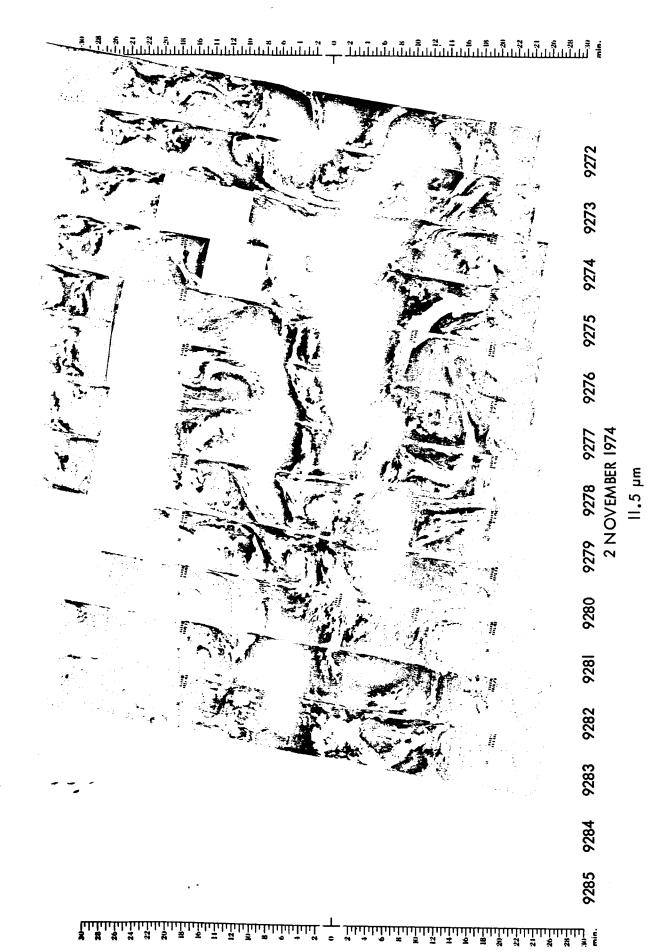


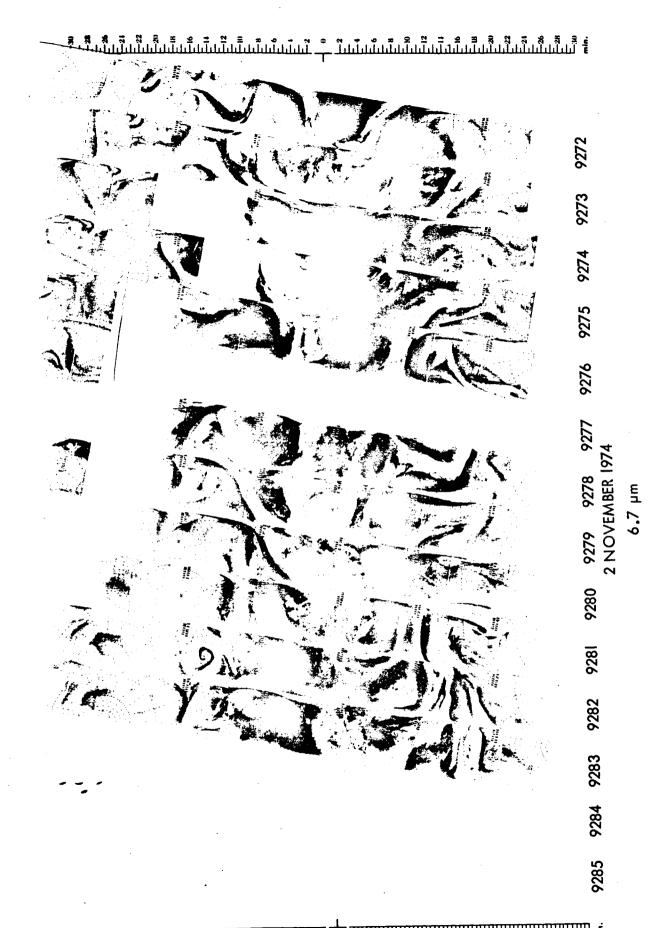


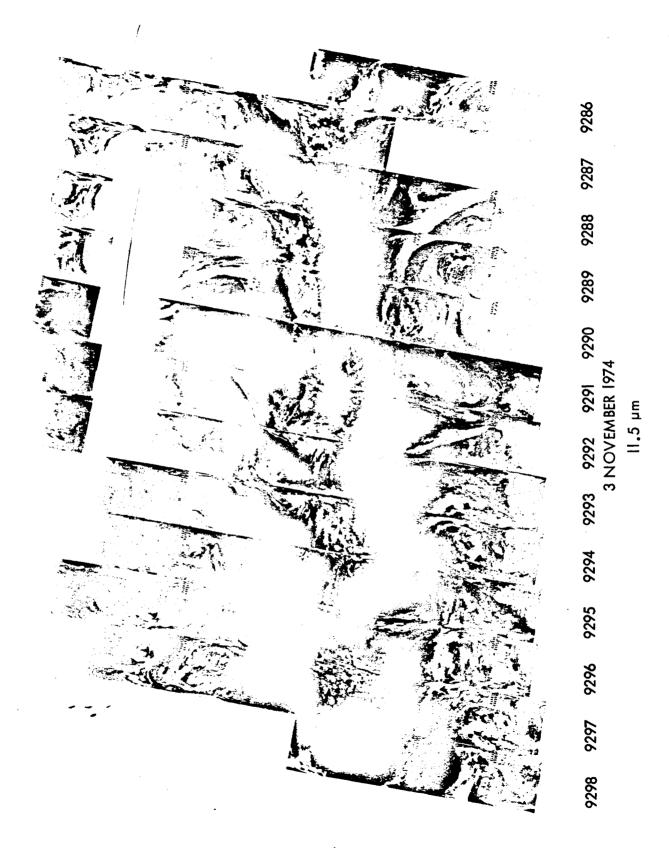
#### $\frac{1}{2} \frac{1}{2} \frac{1}$

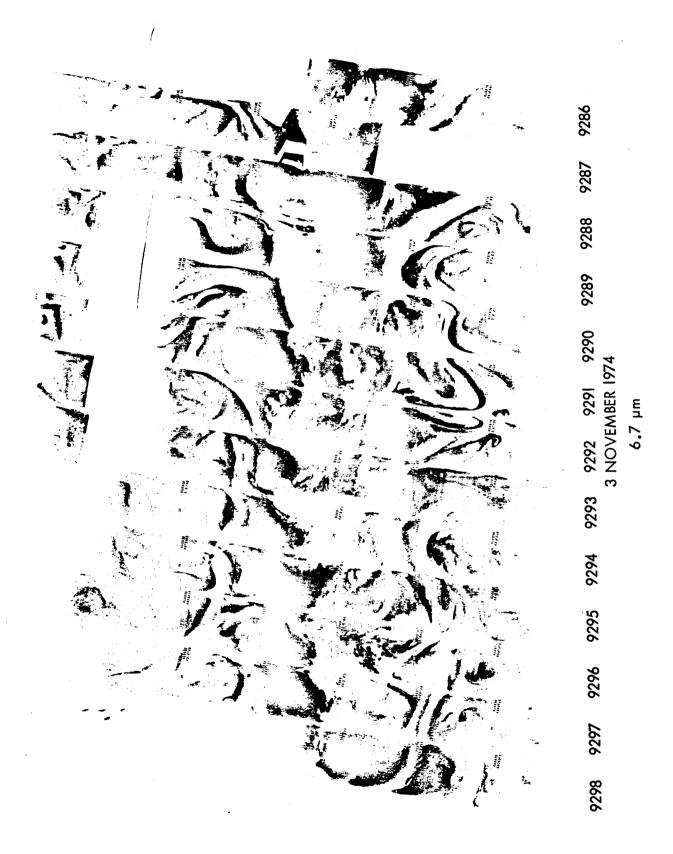


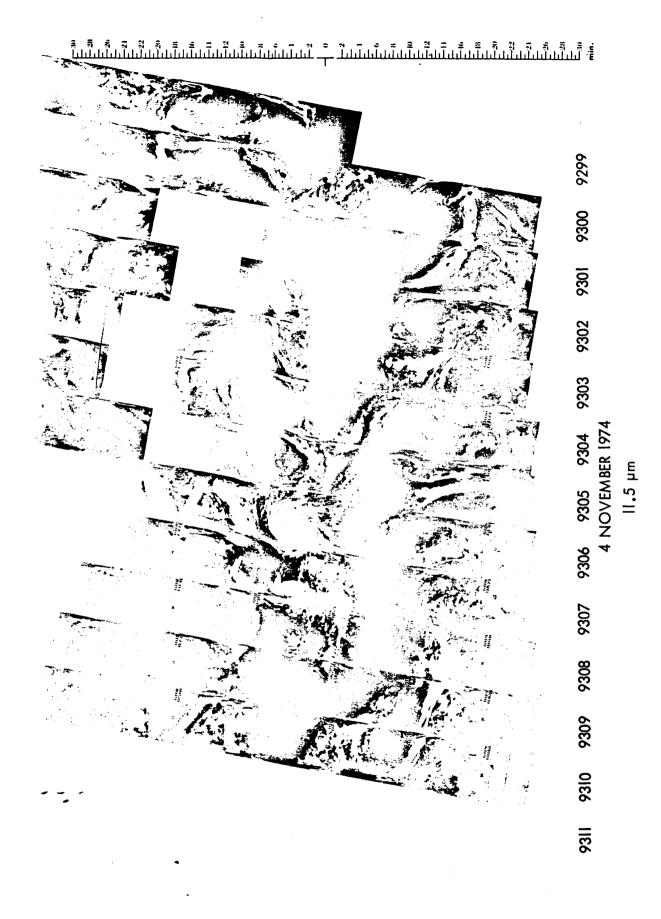


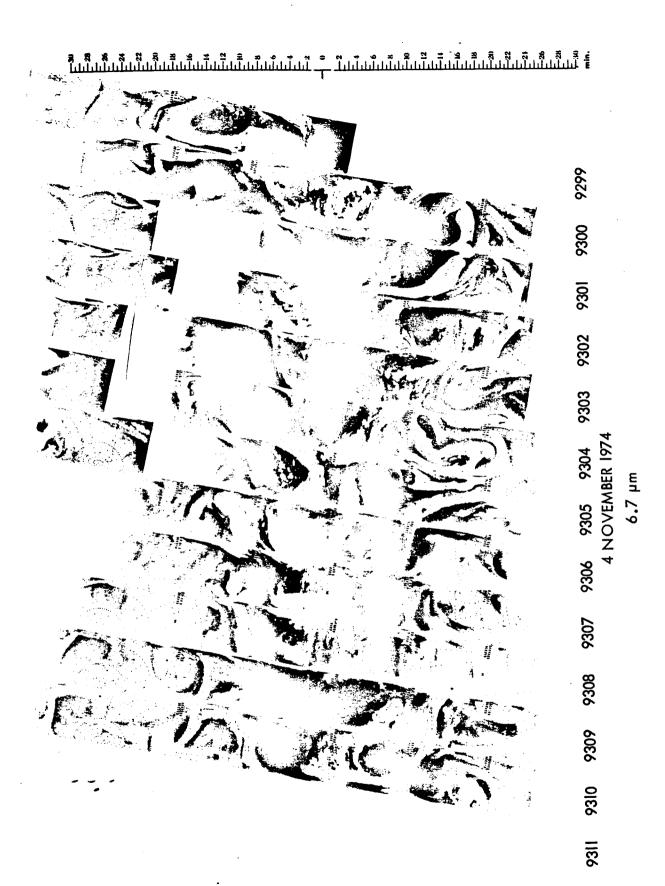


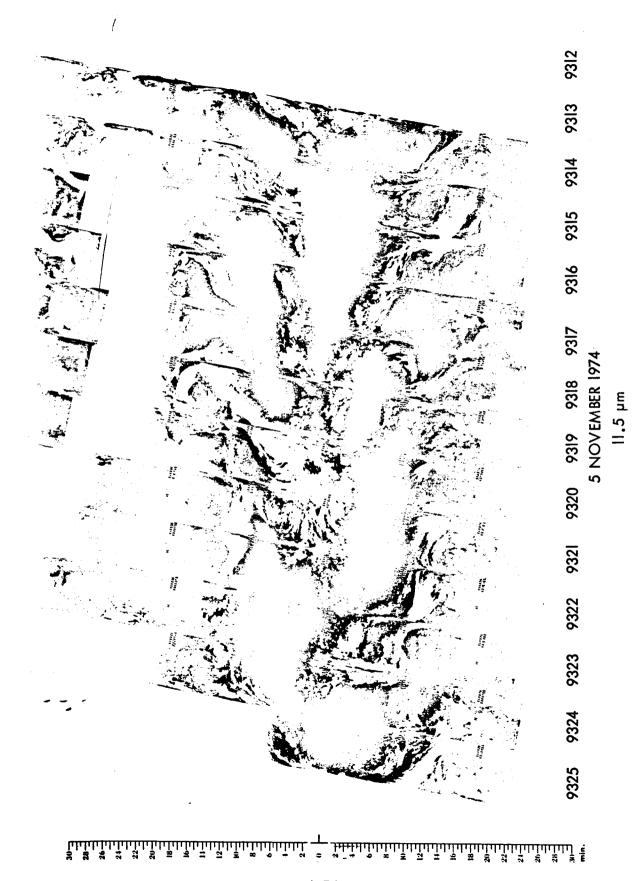


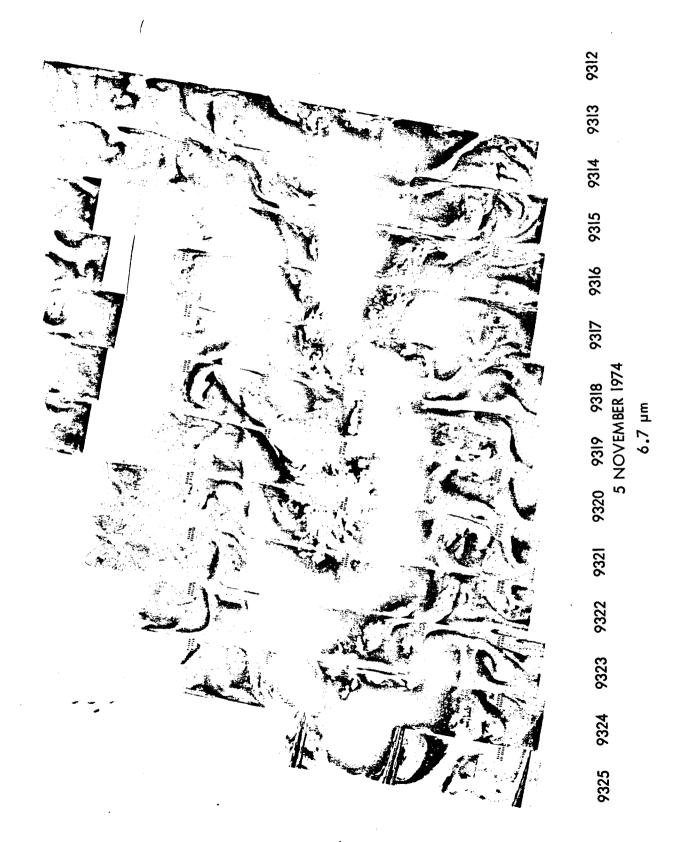


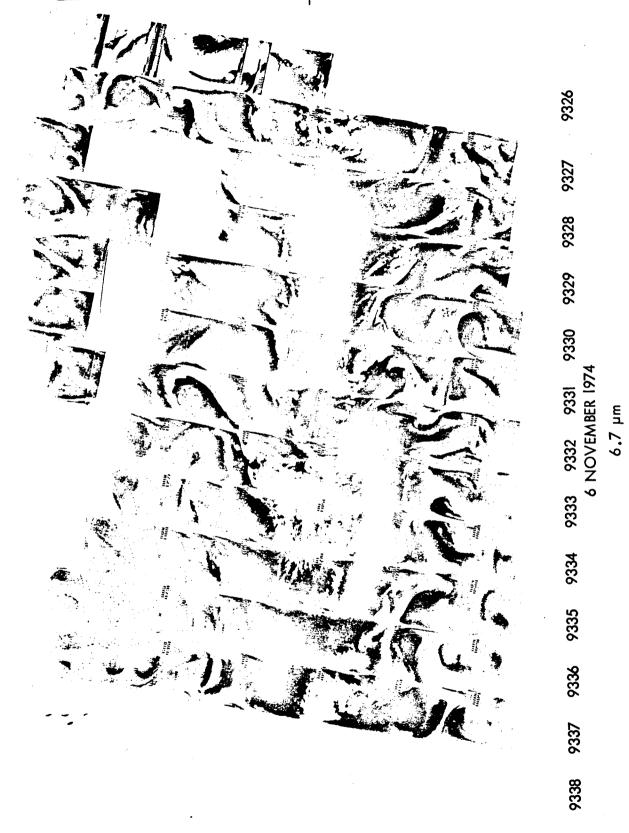


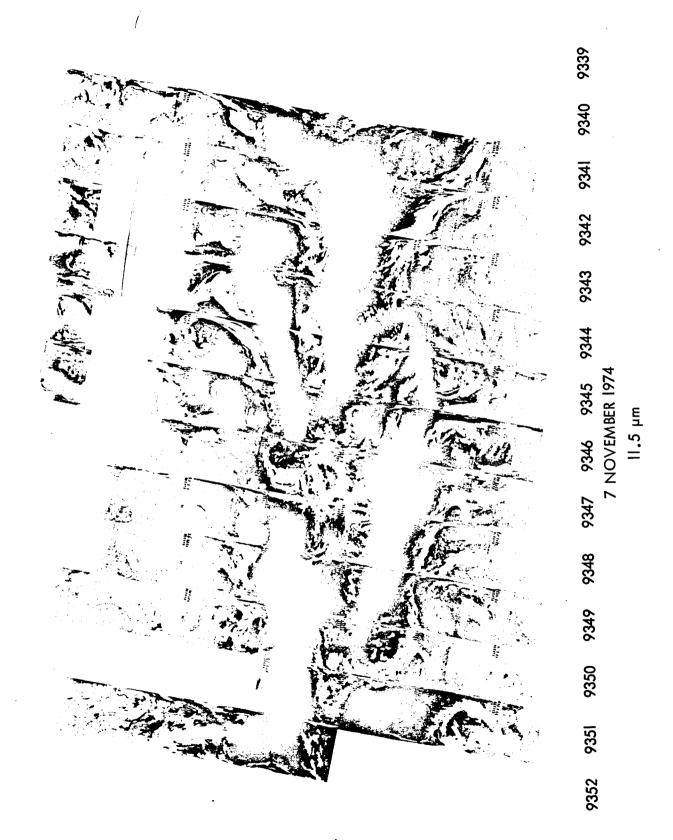


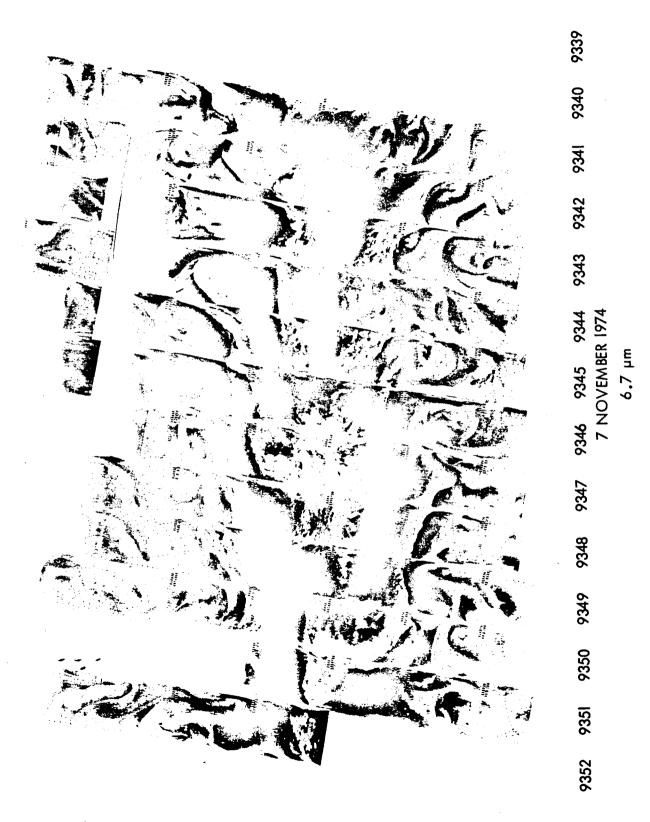


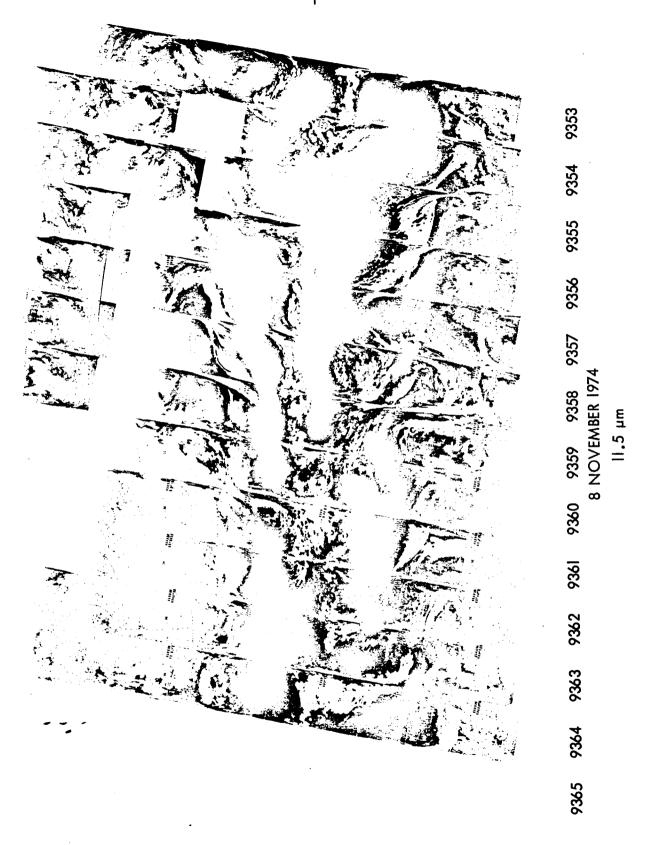


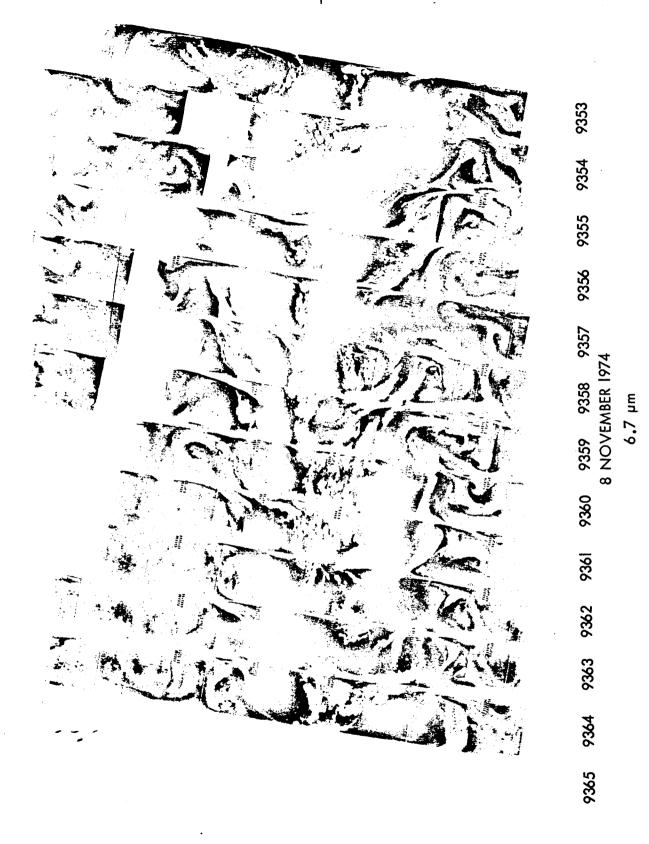


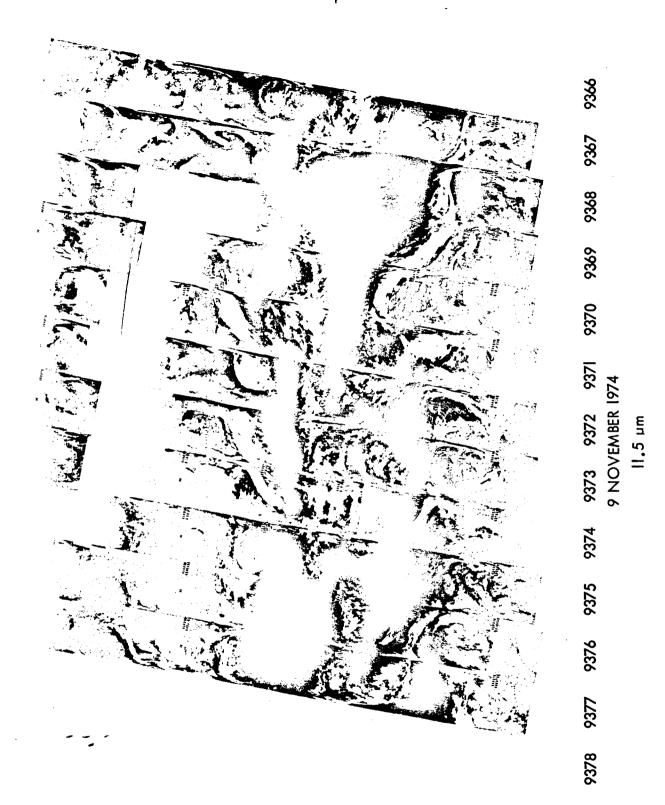


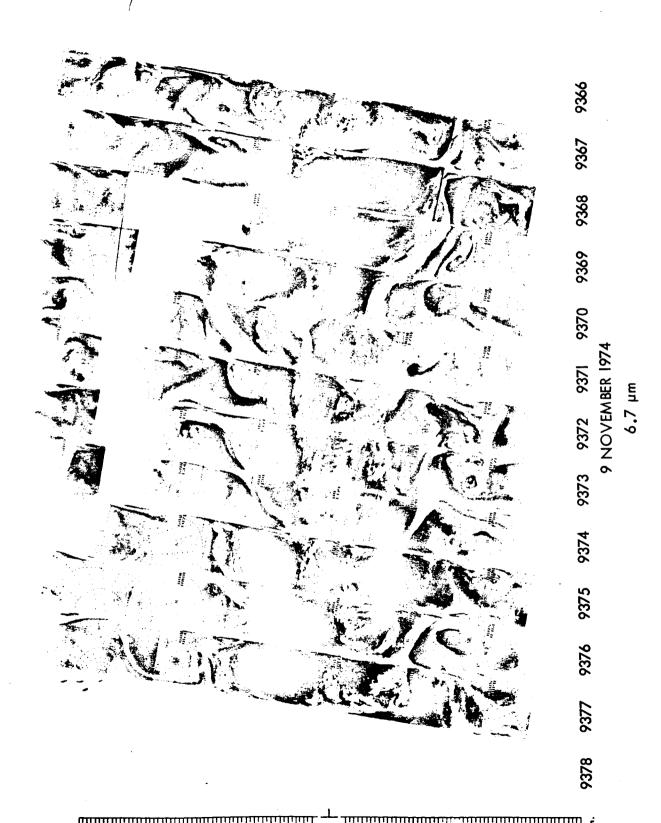




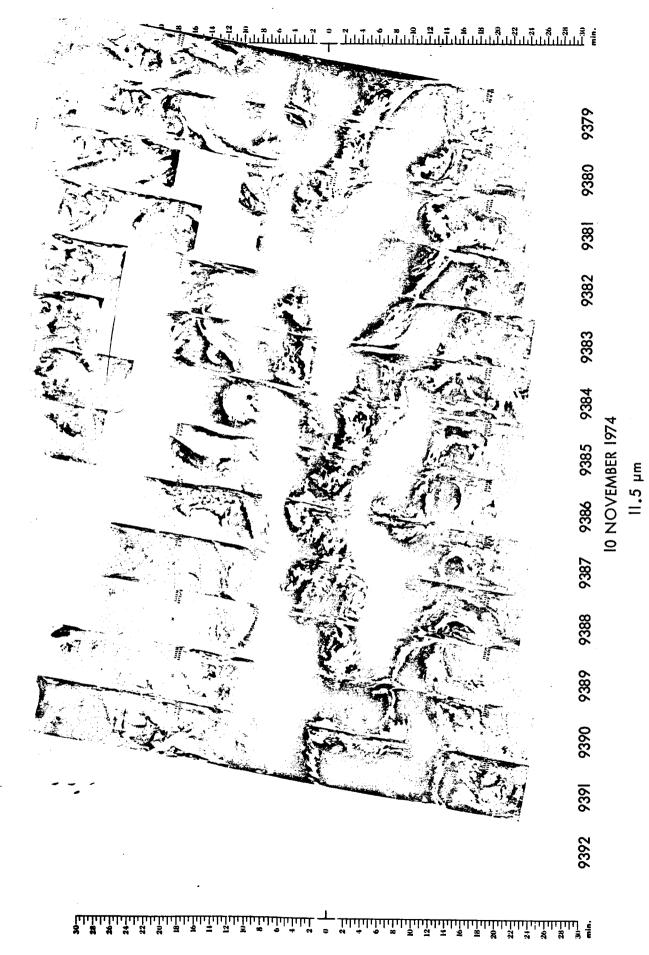




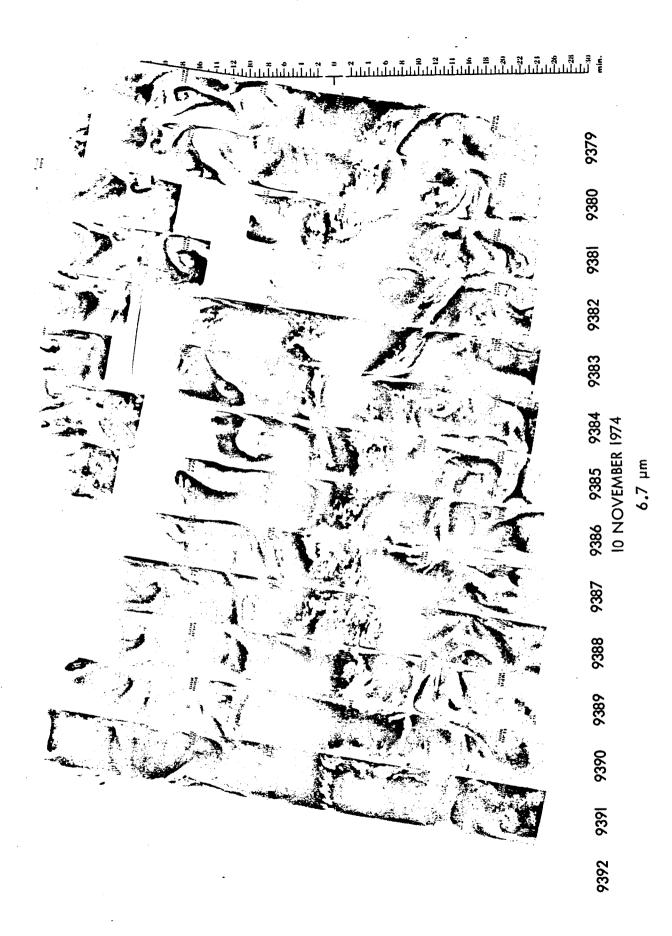


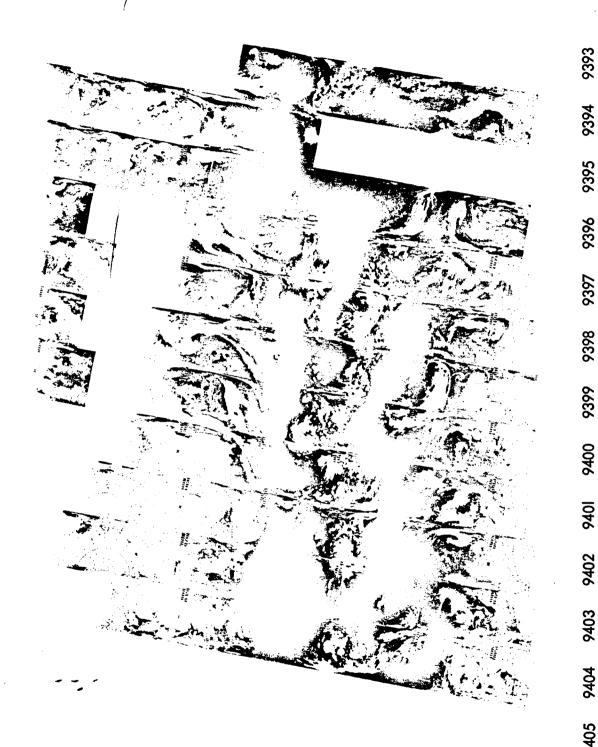


4-83

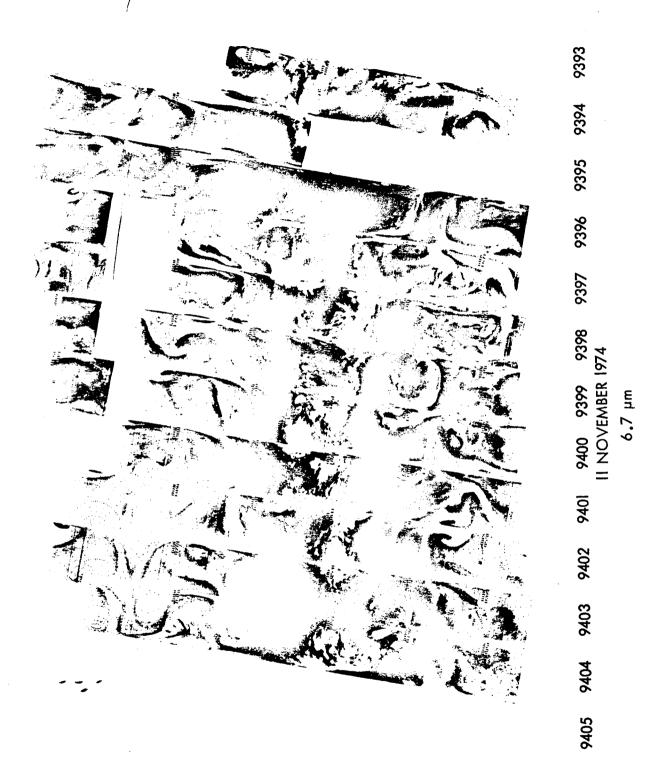


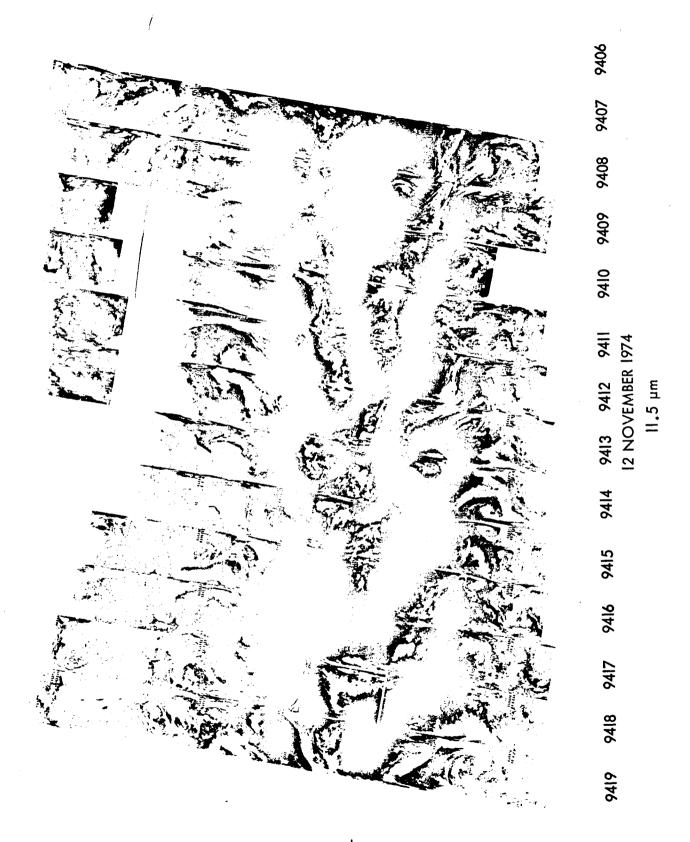
4-84



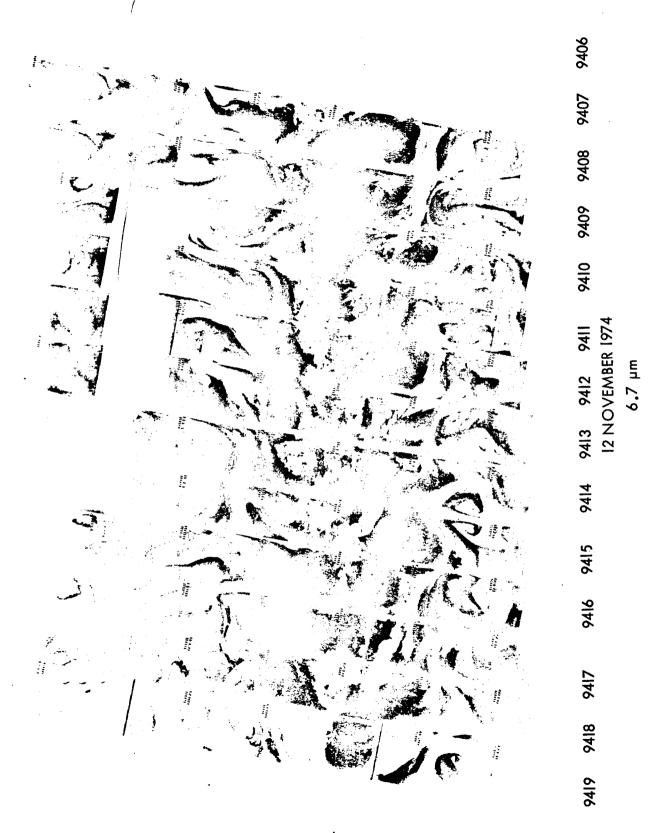


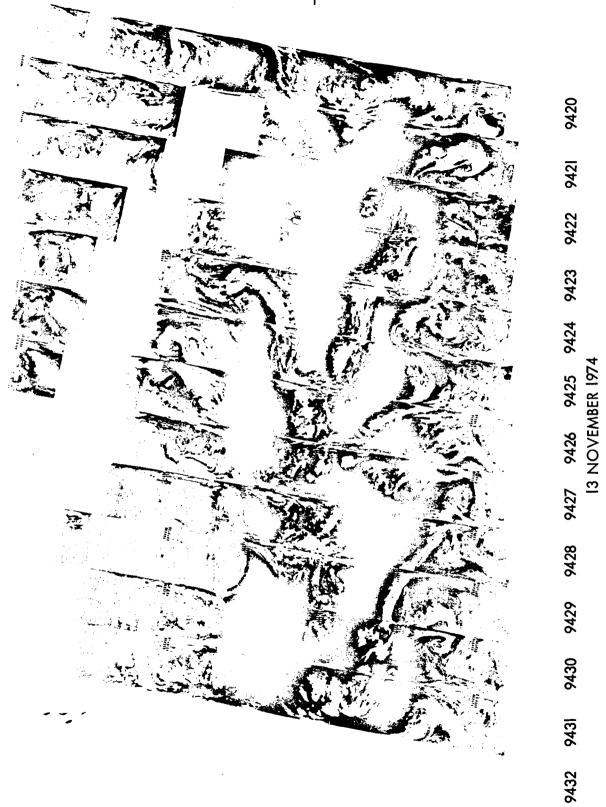
II NOVEMBER 1974 II.5 µm 





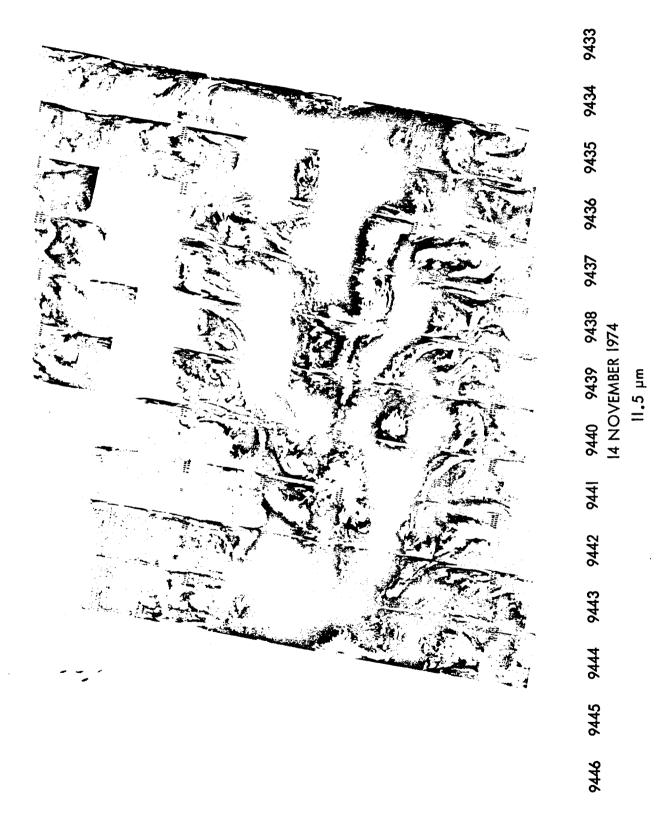
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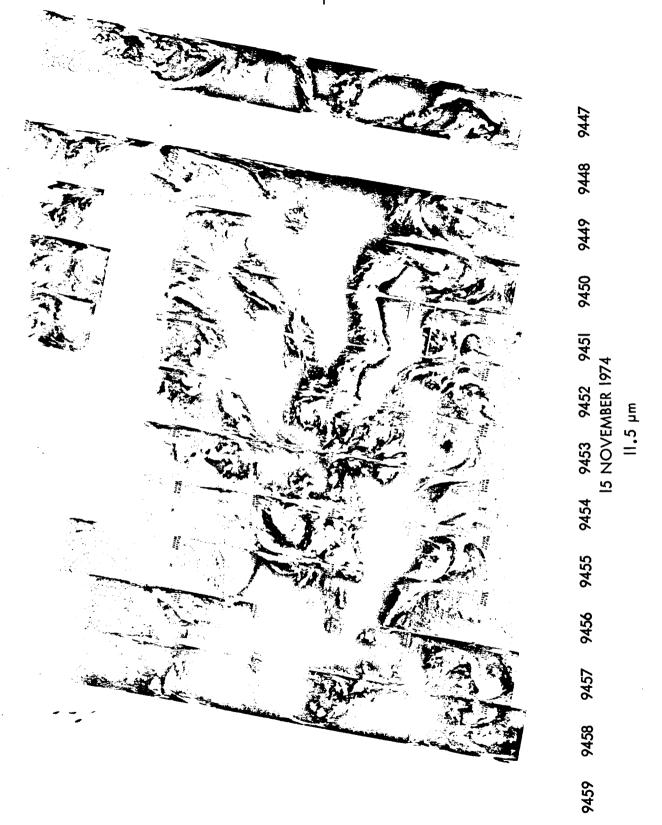
II.5 µm





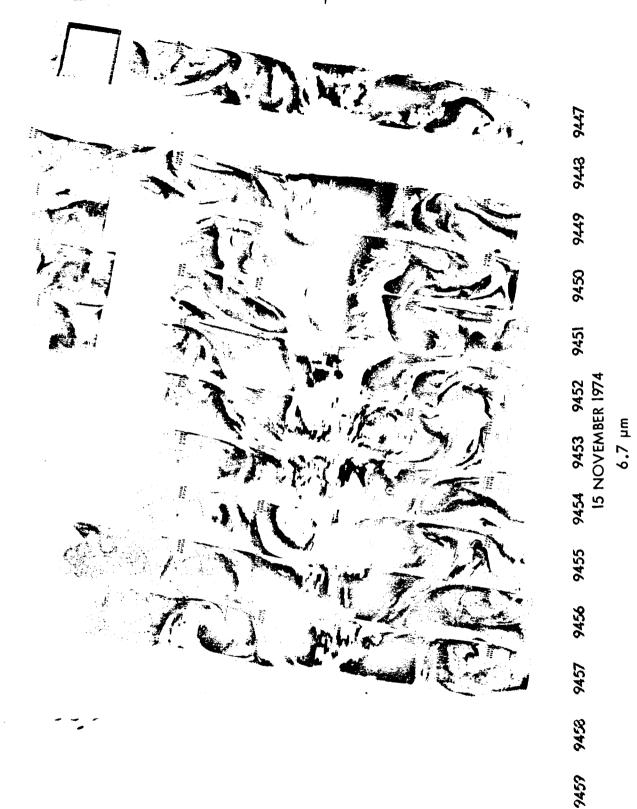
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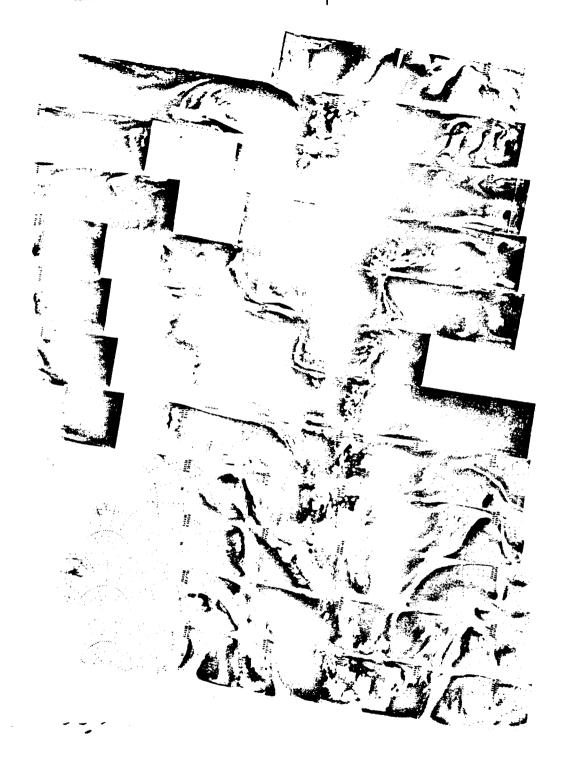
9454 9453 9452 I5 NOVEMBER 1974 6.7 µm 

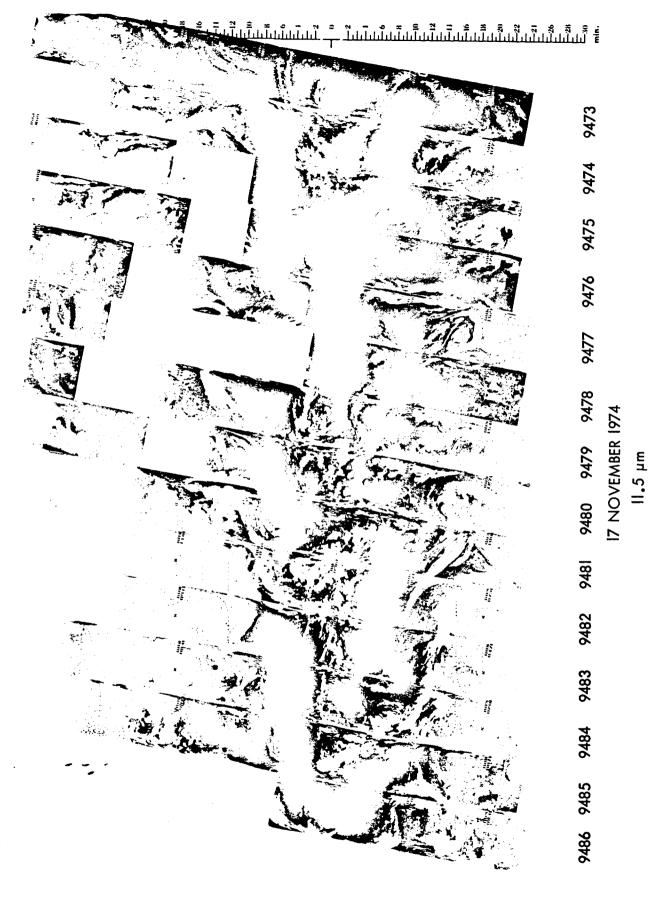


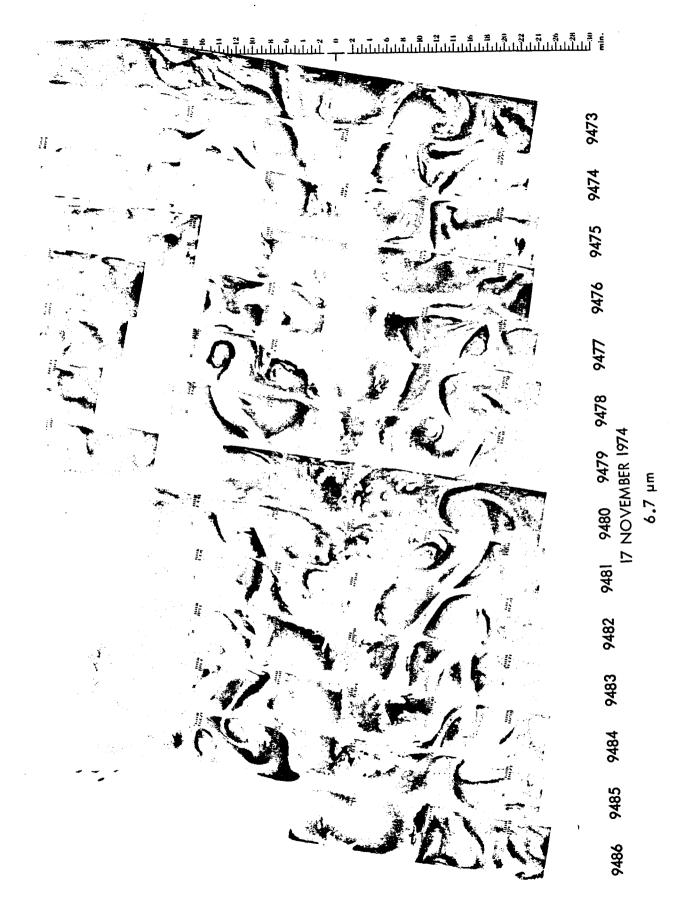


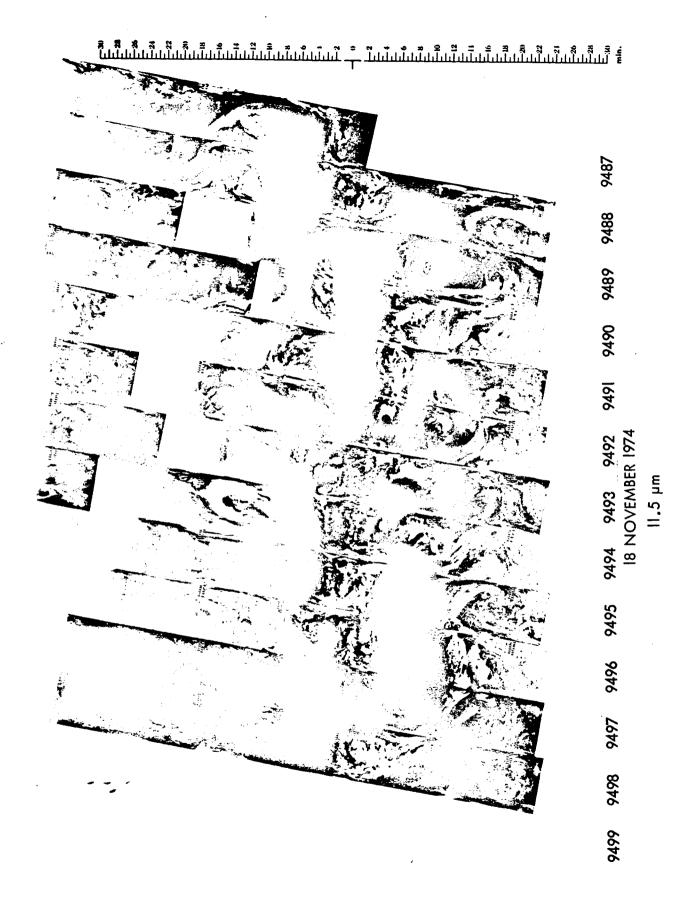
9465 9464 16 NOVEMBER 1974 11.5 µm 9468 9467 

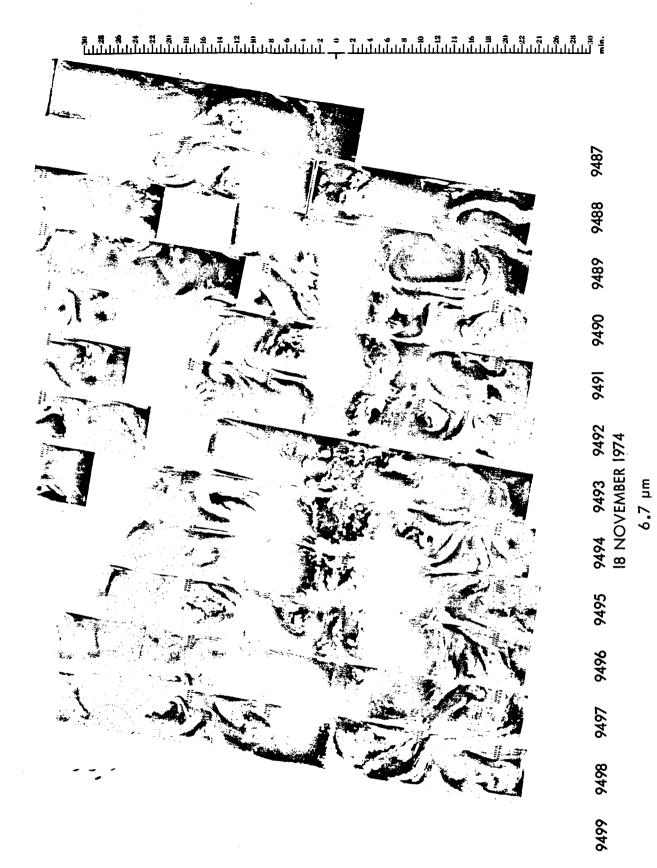
**្វុឌ្ឌ ខ្លួន** ខ្លួន និង គឺ គឺ គឺ គឺ គឺ ស្រាក់ស្រី គឺ គឺ ការប្រជាព្រះប្រះប្រជាព្រះប្បាព្យក្រកប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាពិក្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្យក្រកប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្ធបាក្រកប្រជាព្ធប្រជាព្រះប្រជាព្ធបាក្រកប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រភពិកប្រភពិព្រះប្រភពិក្រកប្រភពិក្រកប្រភពិក្រកប្រភពិកប្រភពិក្រកប្រភពិក

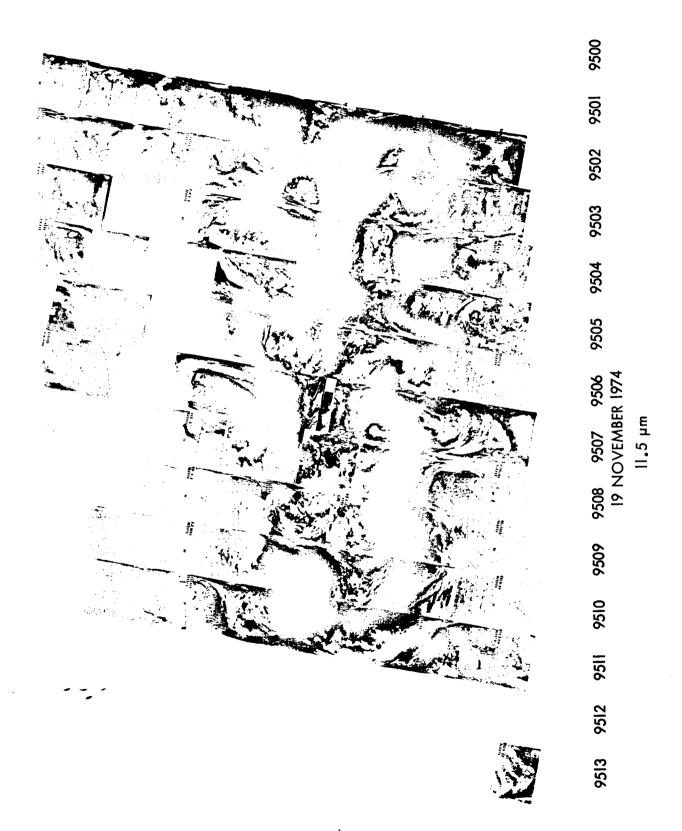


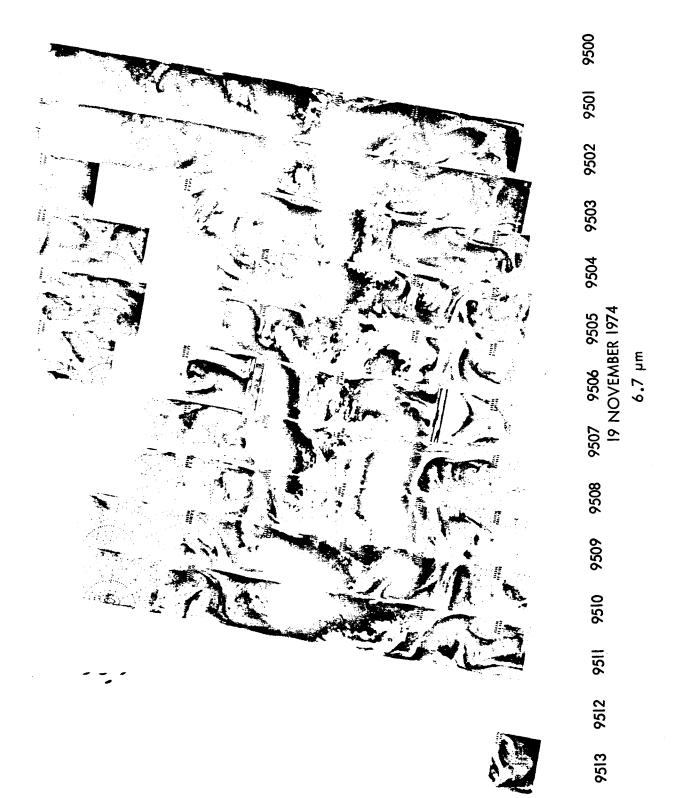


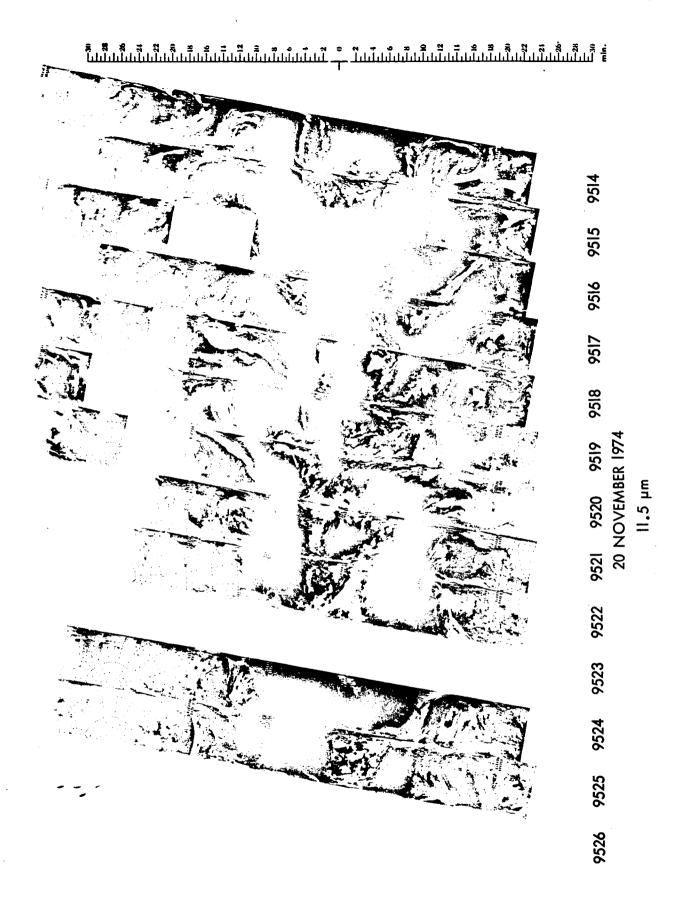




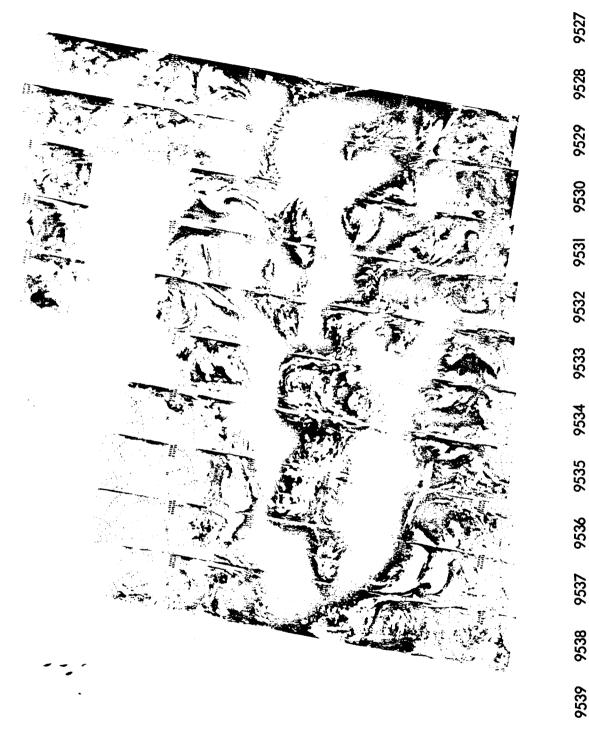


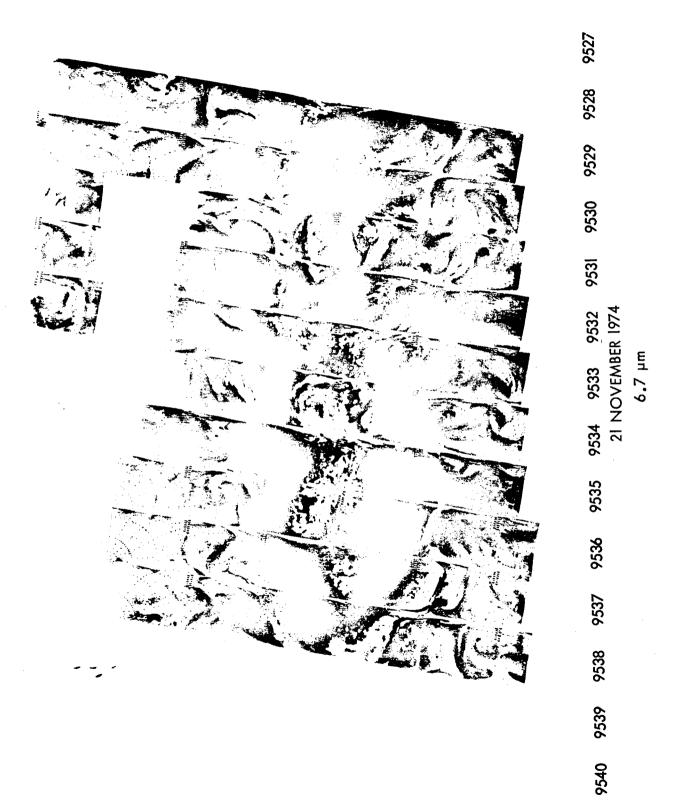






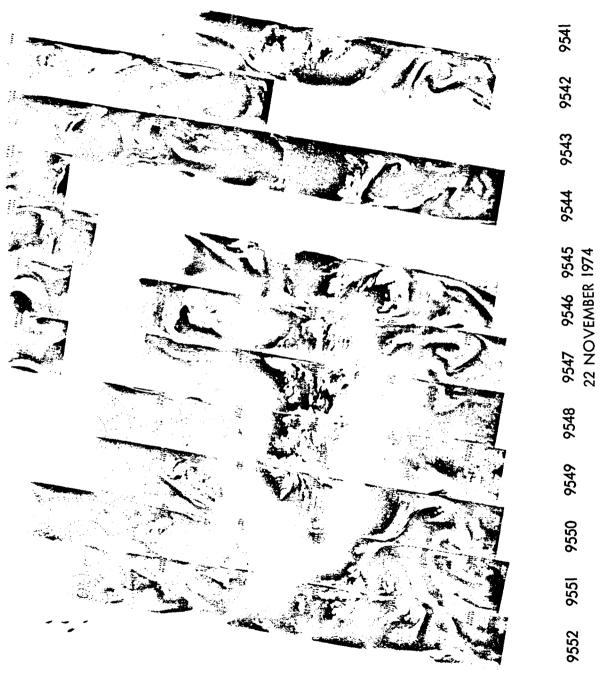
# 9521 9520 9519 20 NOVEMBER 1974 6.7 µm







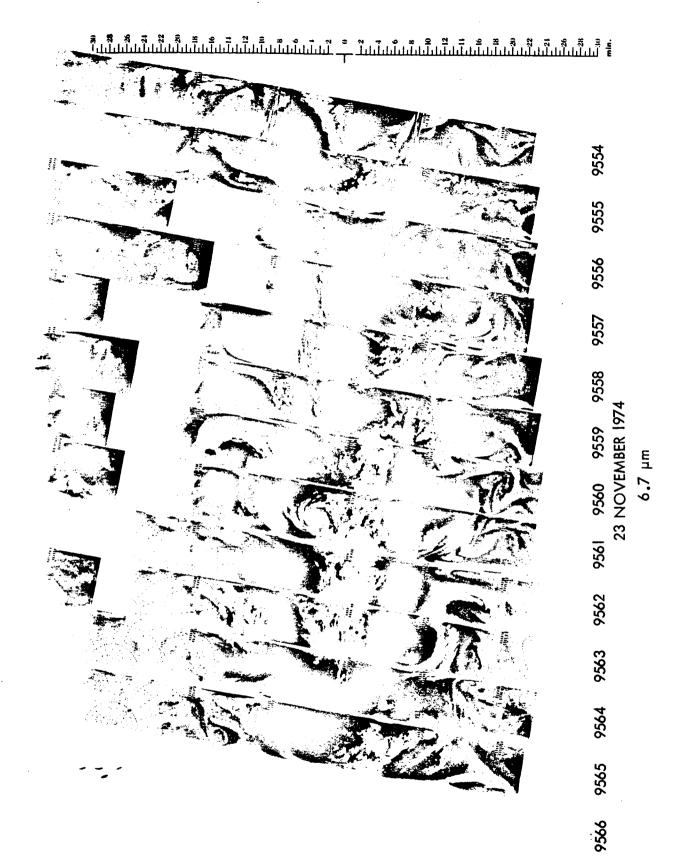




9553

6.7 µm

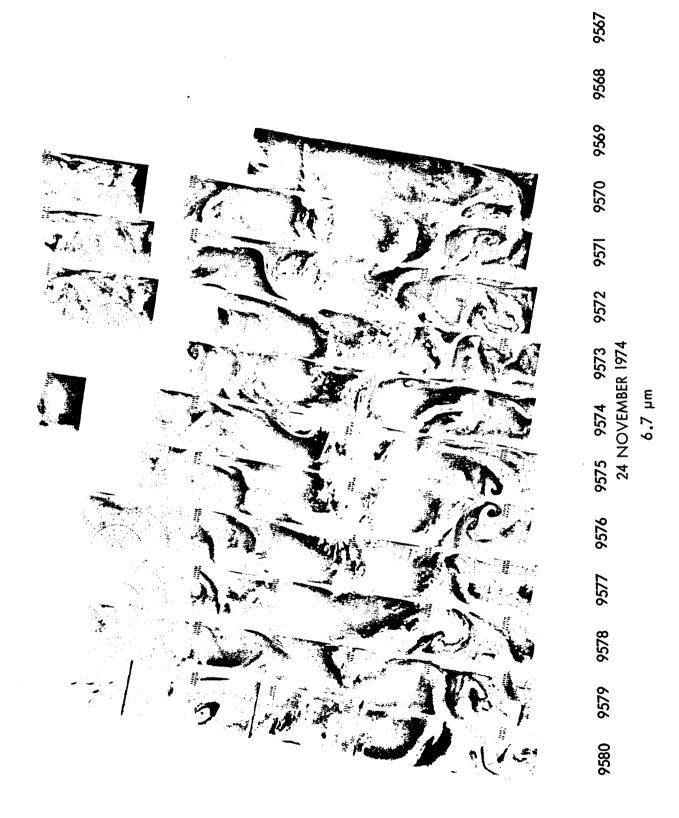
# 9561 9560 9559 23 NOVEMBER 1974 II.5 µm





9574 9573 9572 24 NOVEMBER 1974 11.5 µm 

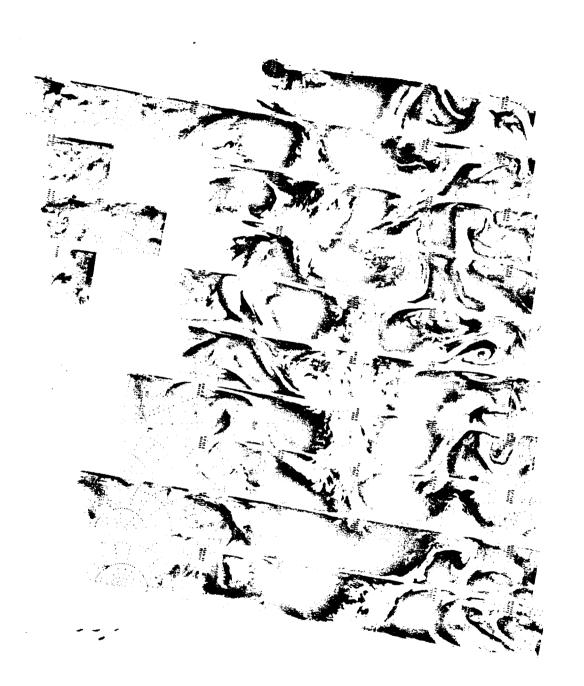
**្វូវ វុវ** វុវ វុវ វុវ ភូ ភូ ភូ ភូ ភូ ភូ ភ្លឺ ក្រុស្សាល់ ក្រុសព្រស្សាល់ ក្រុសពីស្នាល់ ក្រុសព្រស្សាល់ ក្រុសព្រស្សាល់ ក្រុសព្រស្សាល់ ក្រុសព្រស្សាល់ ក្រុសប្រសាល់ ក្រុសប្រសាល់ ក្រុសប្រសាល់ ក្រុសប្រសាល់ ក្រុសប្រសាល់ ក្រុសប្រសាលាលស្ងាល់ ក្រុសប្រសាល់ ក្រុសប្រសាលាលស្ងាល់ ក្រុ

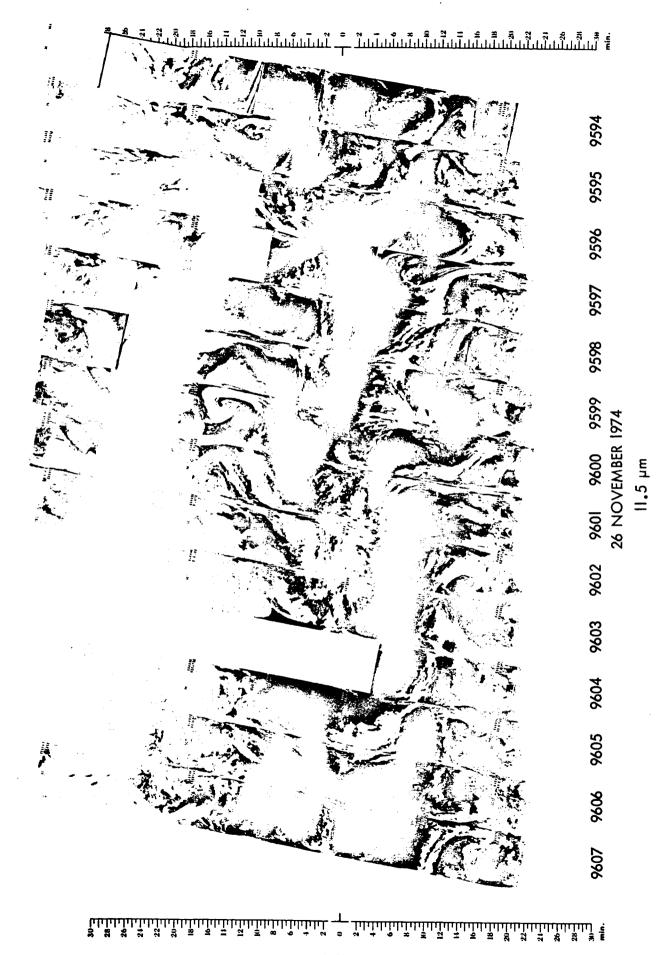




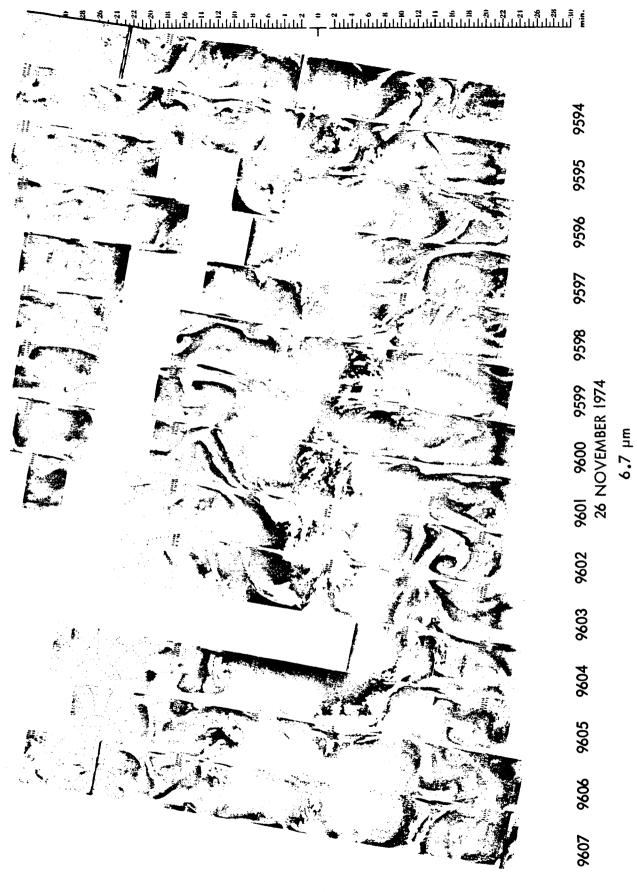
11.5 µm

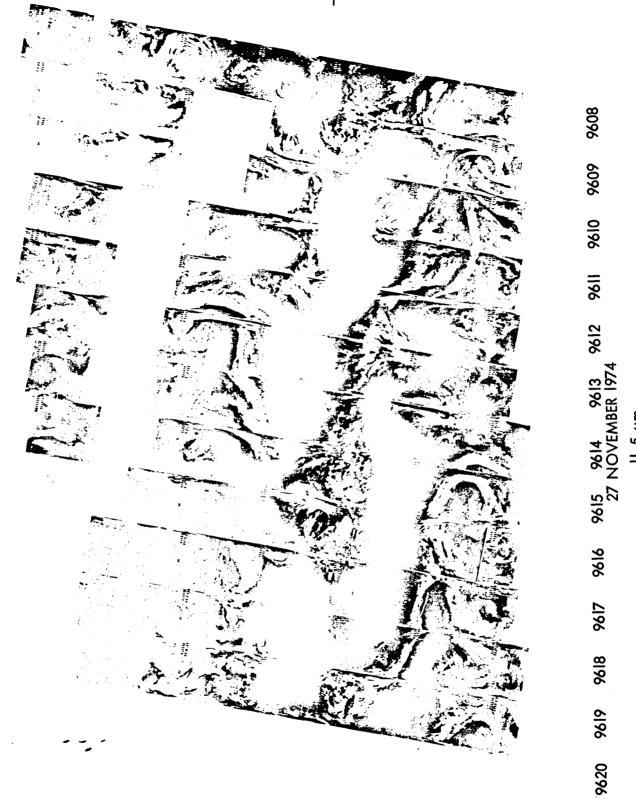
and distributed the second of the second of

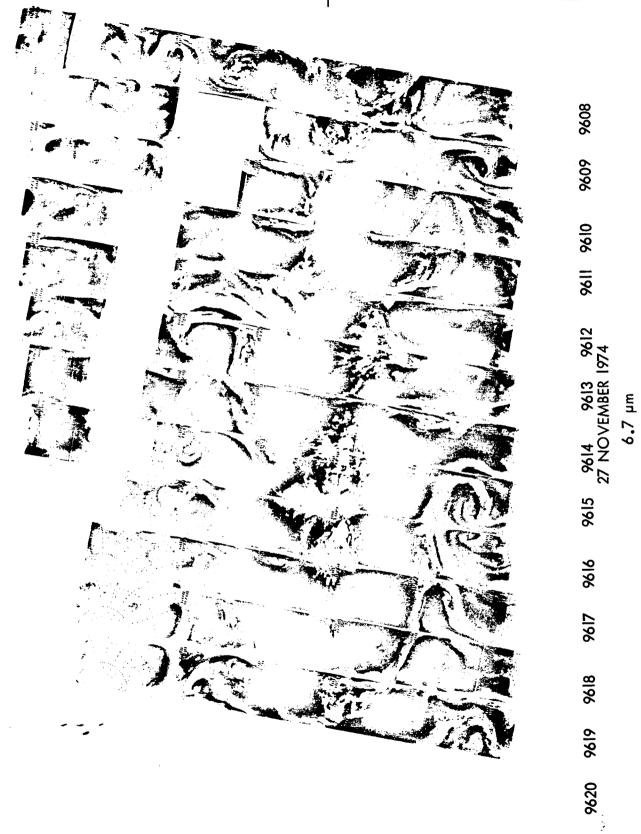




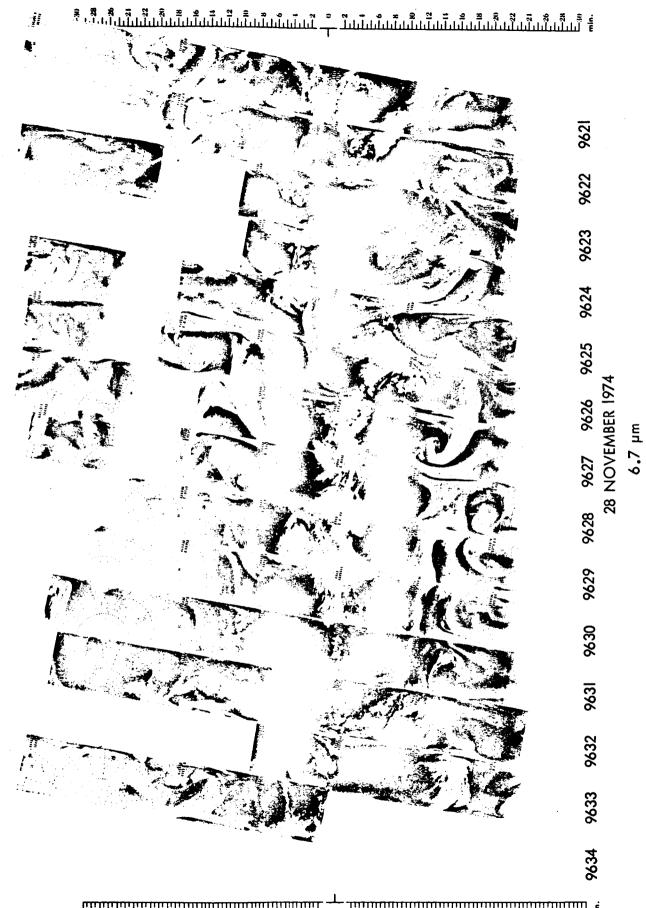
**4-116** 



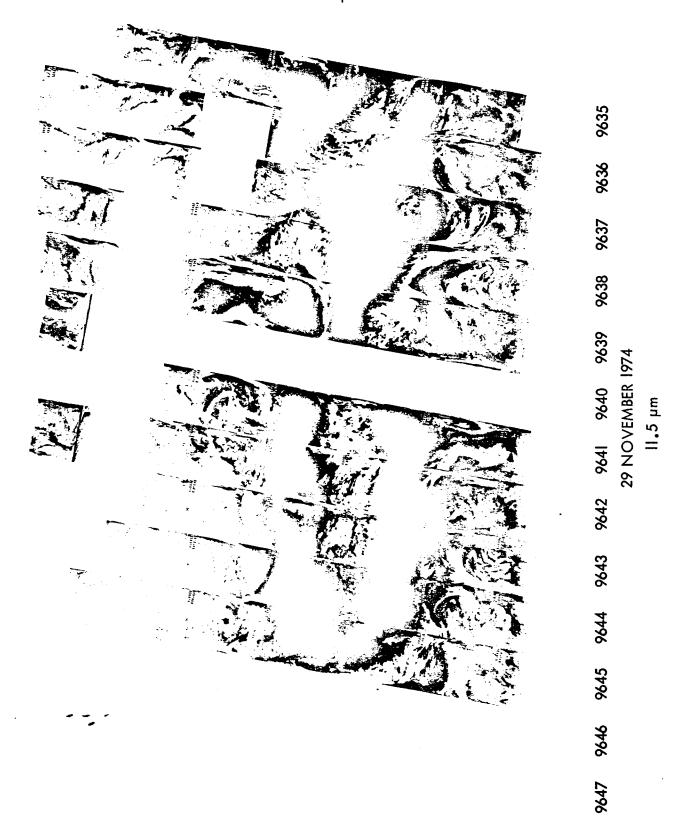


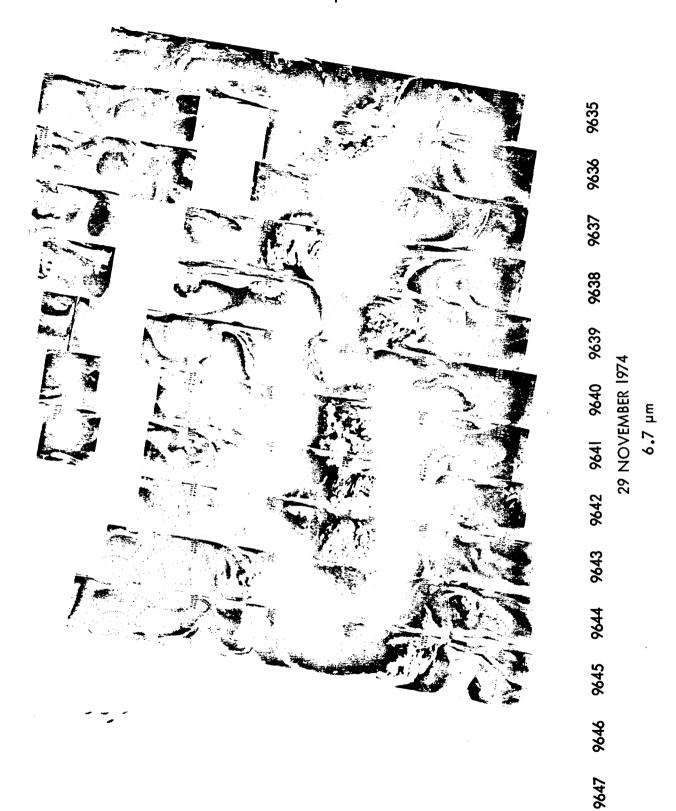


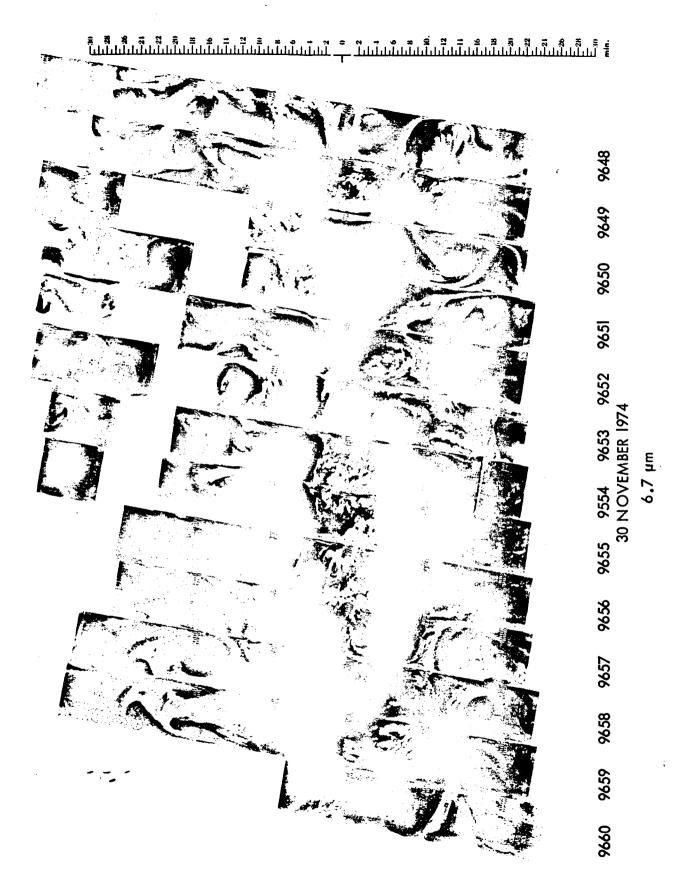
4-120



# 8 4 2 2 8 5 7 7 5 8 6 4 9 9 8 4 6 8 5 7 4 6 8 8 9 9

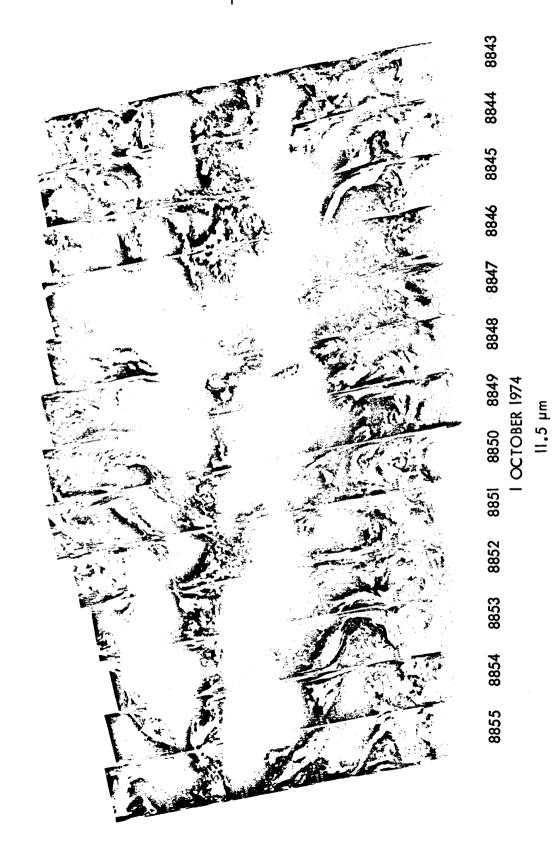


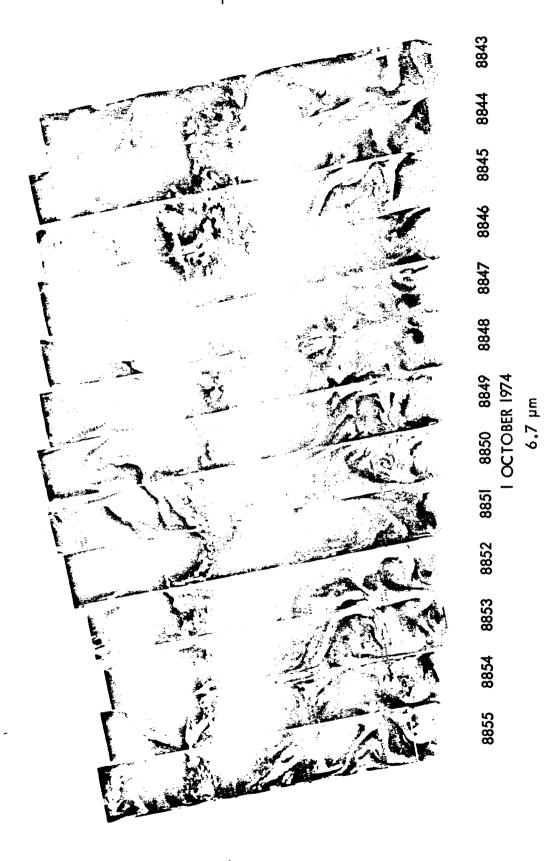


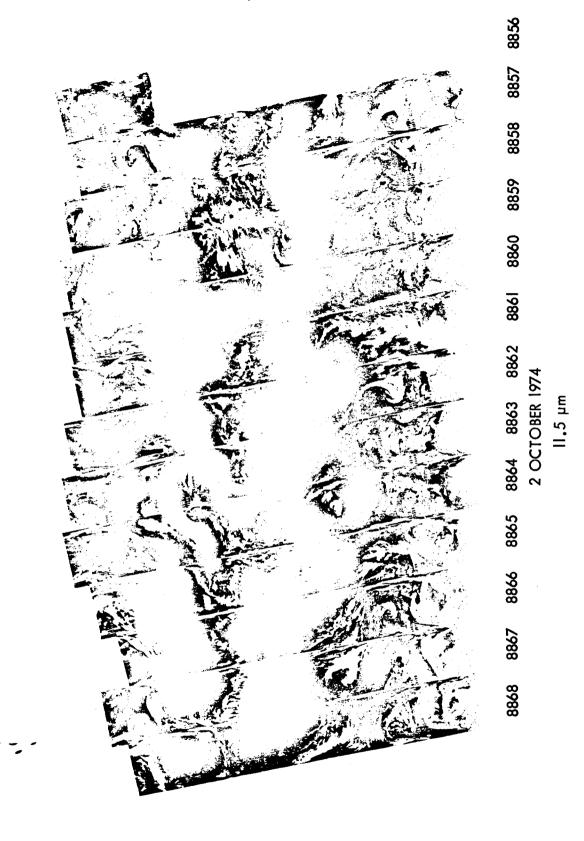


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SECTION 4. 2
TEMPERATURE HUMIDITY INFRARED RADIOMETER
DAYTIME MONTAGES

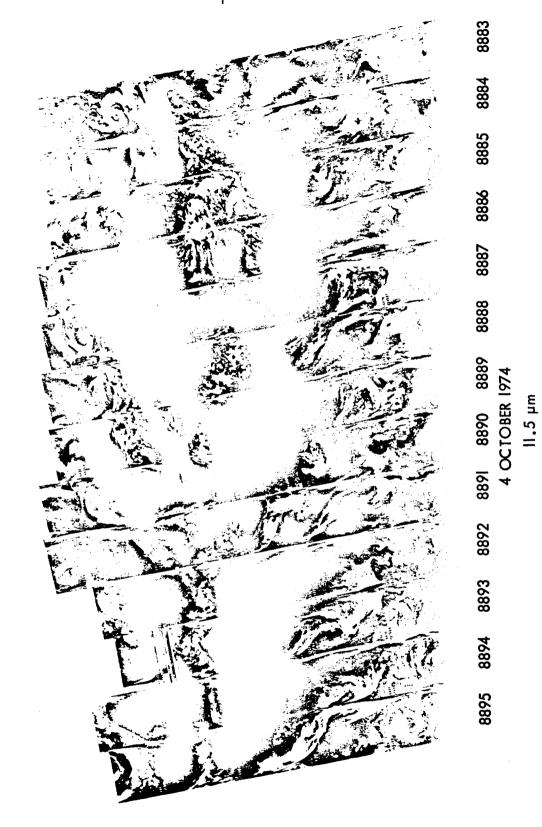






8826 8862 8864 8863 88 2 OCTOBER 1974 6.7 µm 8865

4-133

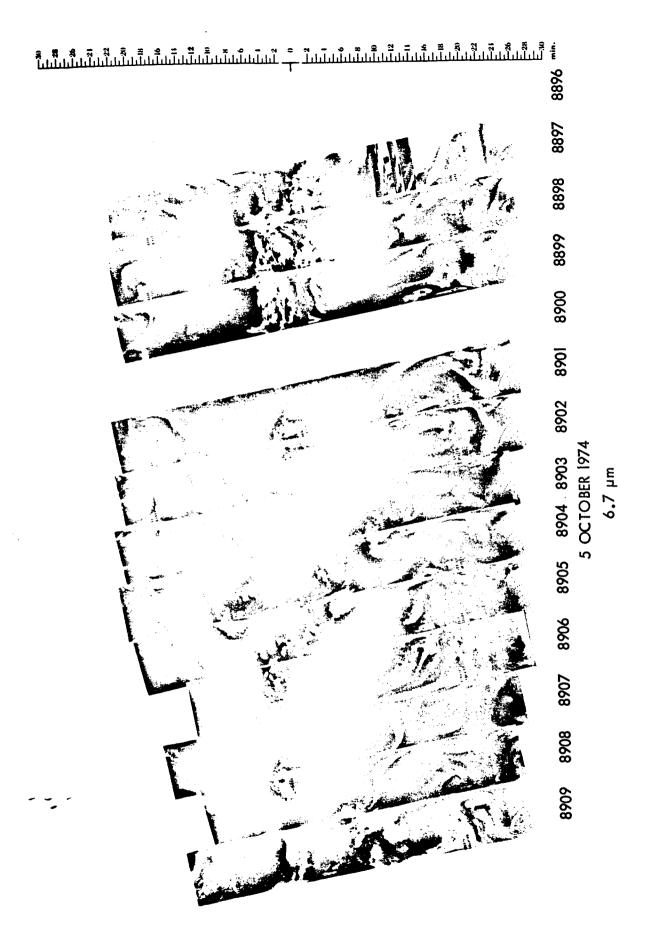


and the state of t

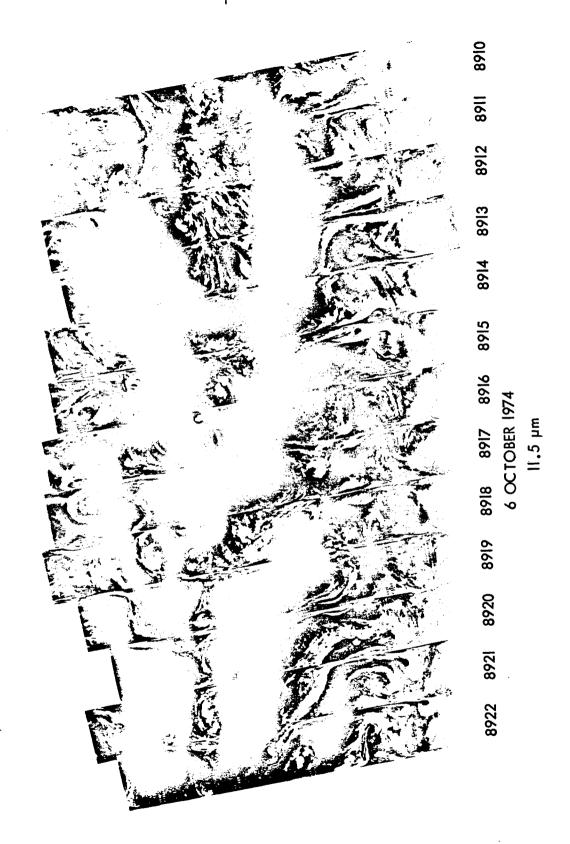


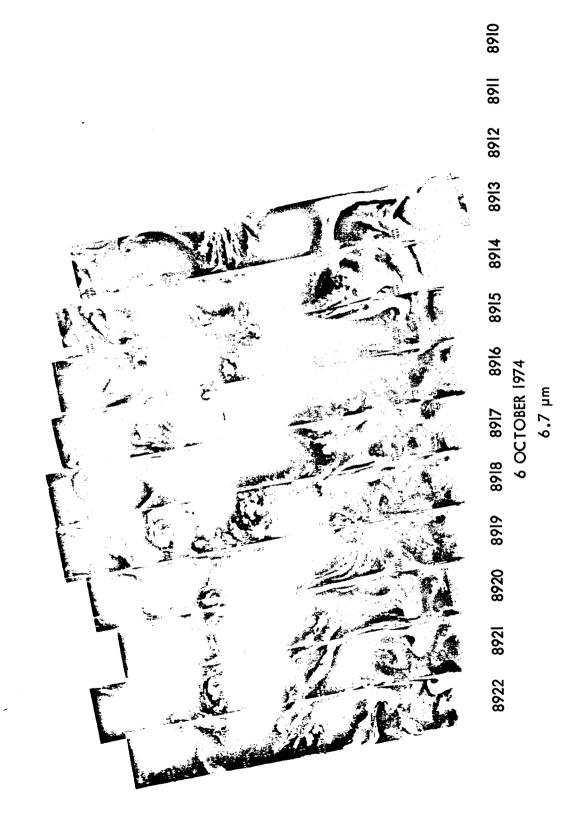
**ᇂᇸᇂᇂᇂ**ᇶᇂᇂᇂᇰᇰᇂᇂᆠᄼᇰᆠᄼᄼᄼᆇᇰᇙᇰᇶᇰᇶᇶᆴ

4-136

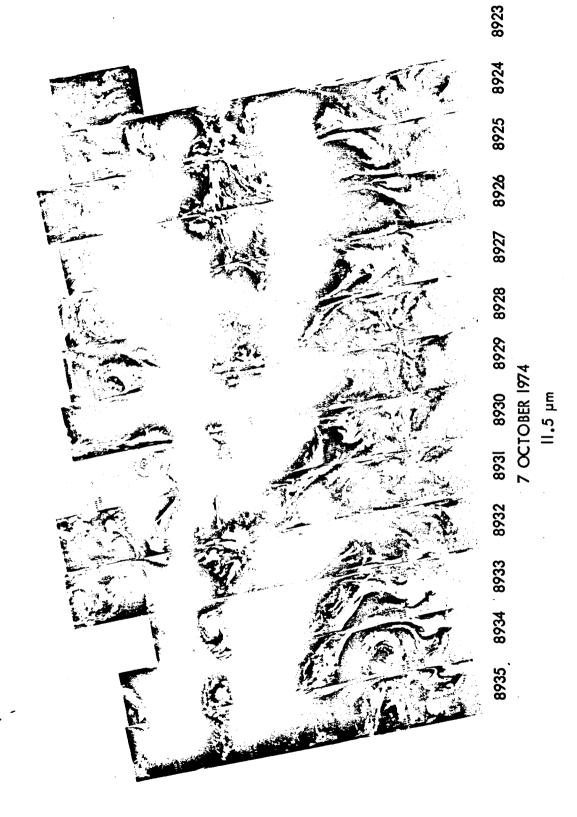


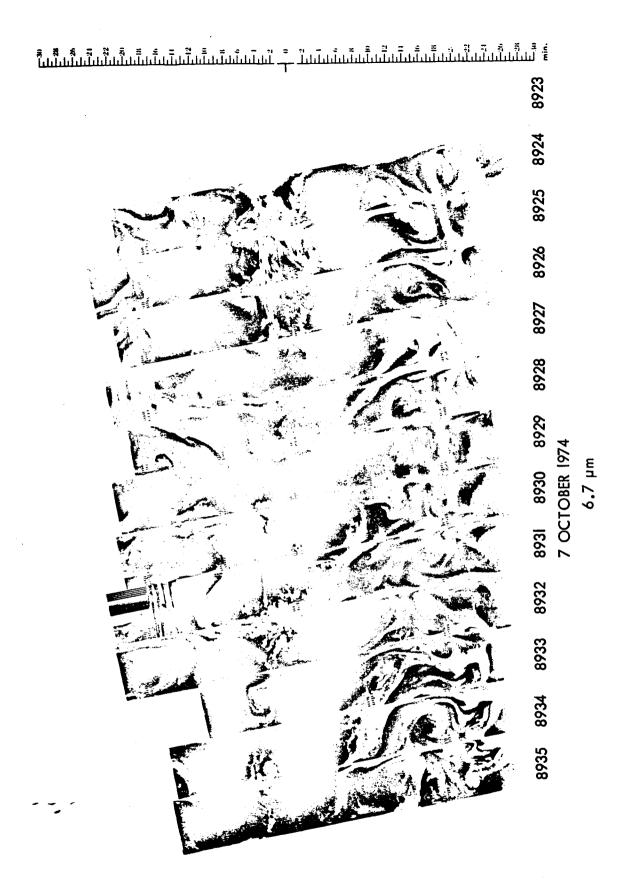
# $\frac{2}{3} \cdot \frac{2}{3} \cdot \frac{1}{3} \cdot \frac{1}$



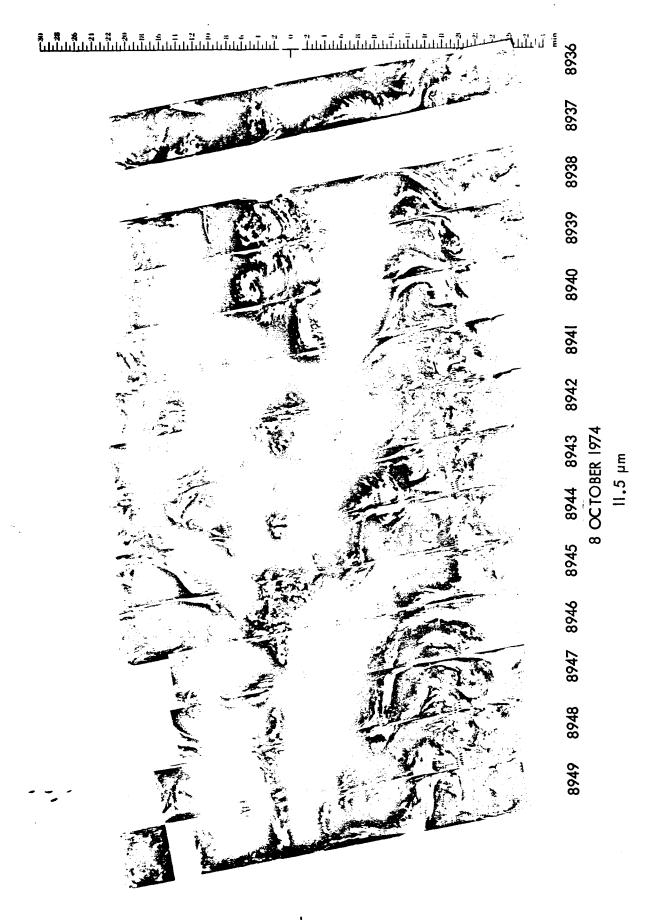


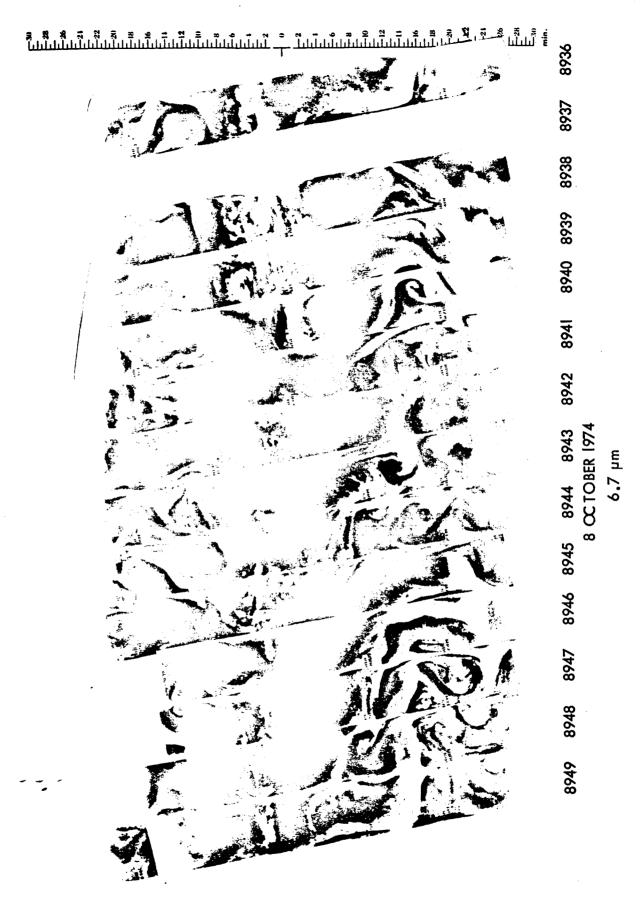
 $\frac{1}{2} \frac{1}{2} \frac{1}$ 

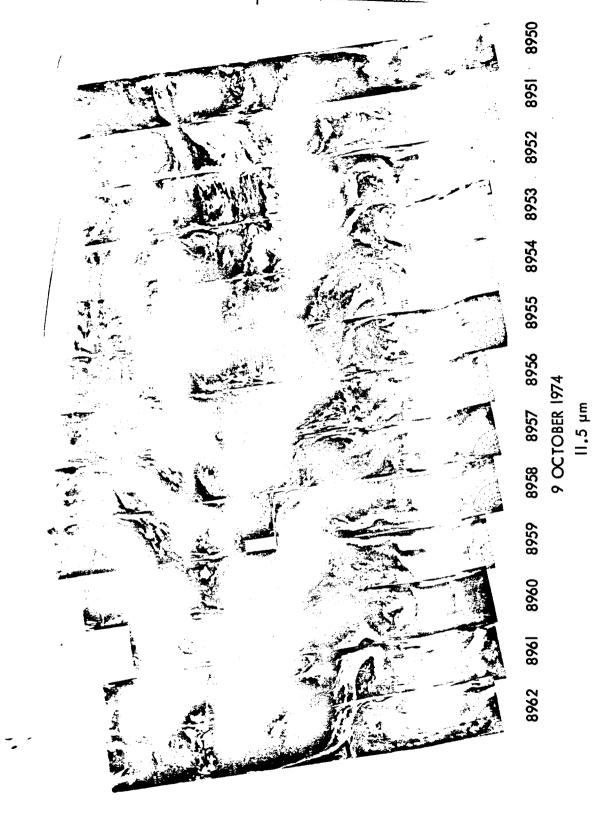




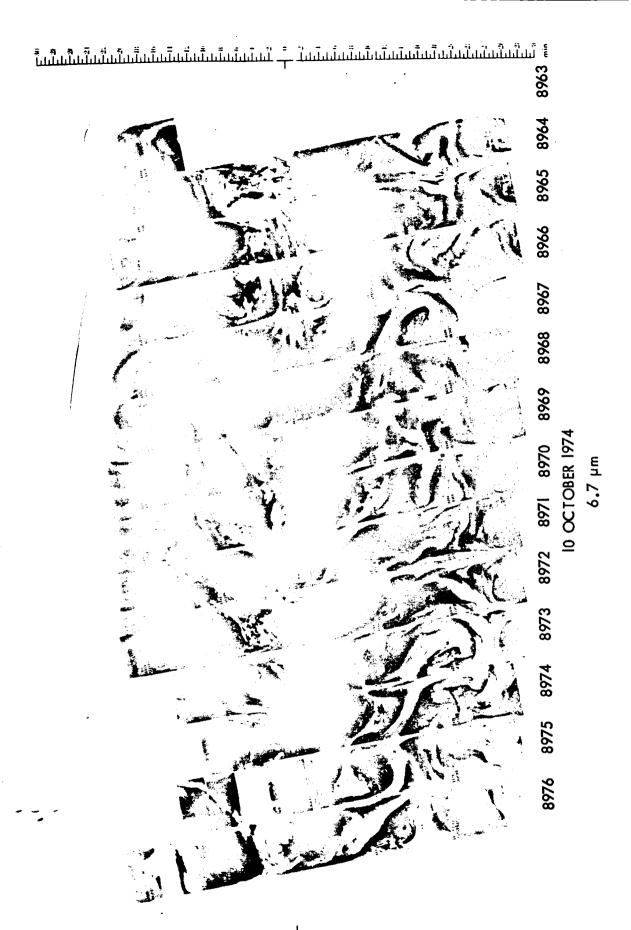
**Little Andre State** 

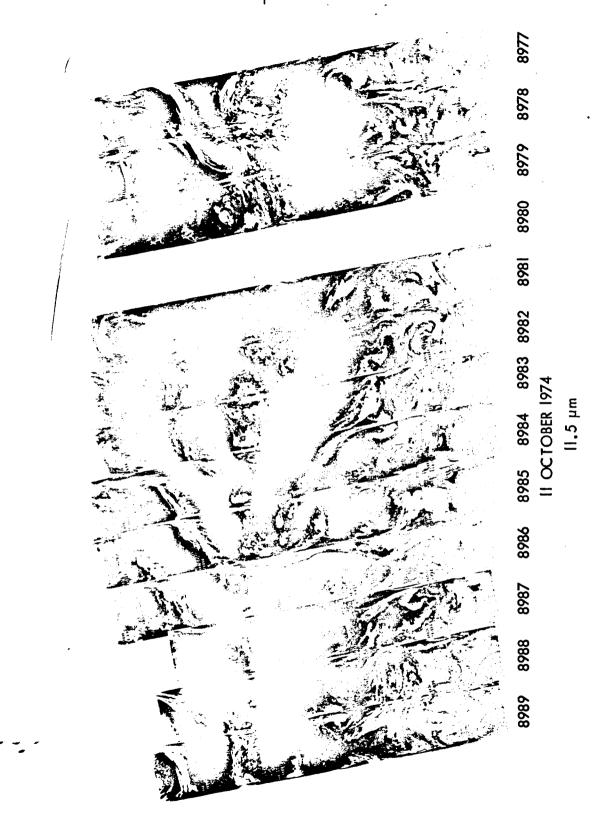


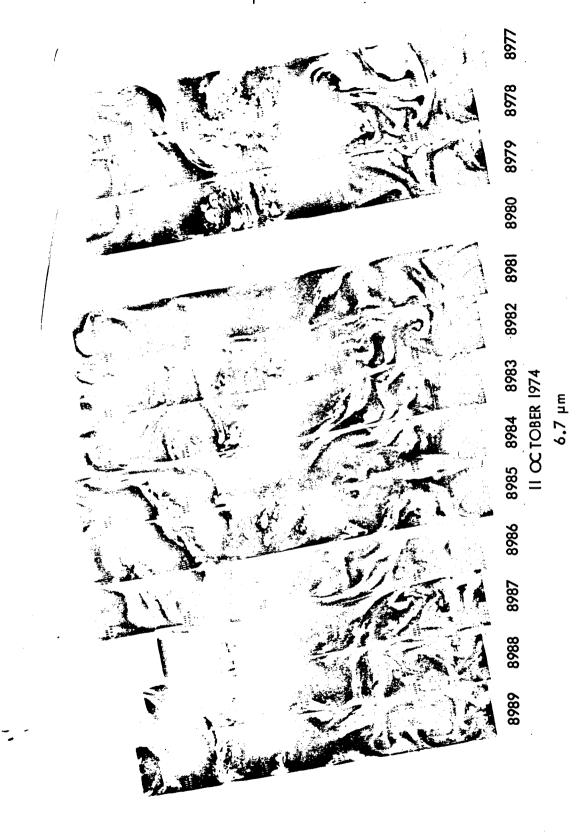




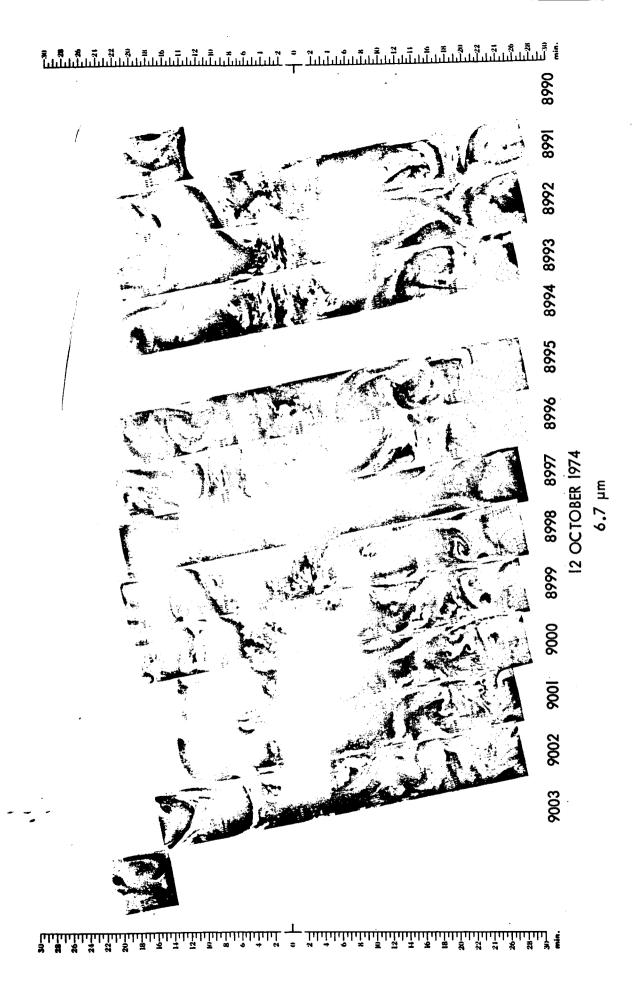
निर्मागमामामामा है इ.स. १८ १८ है





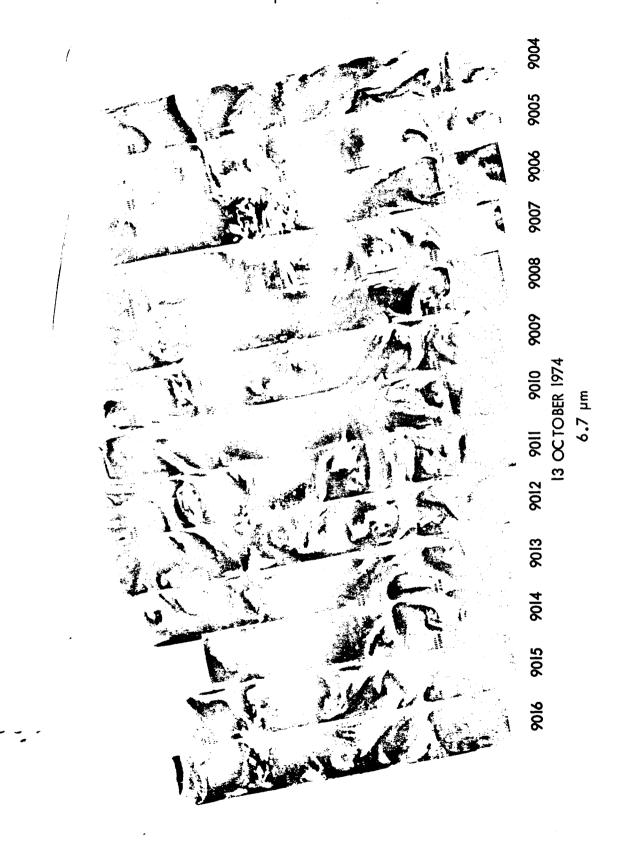


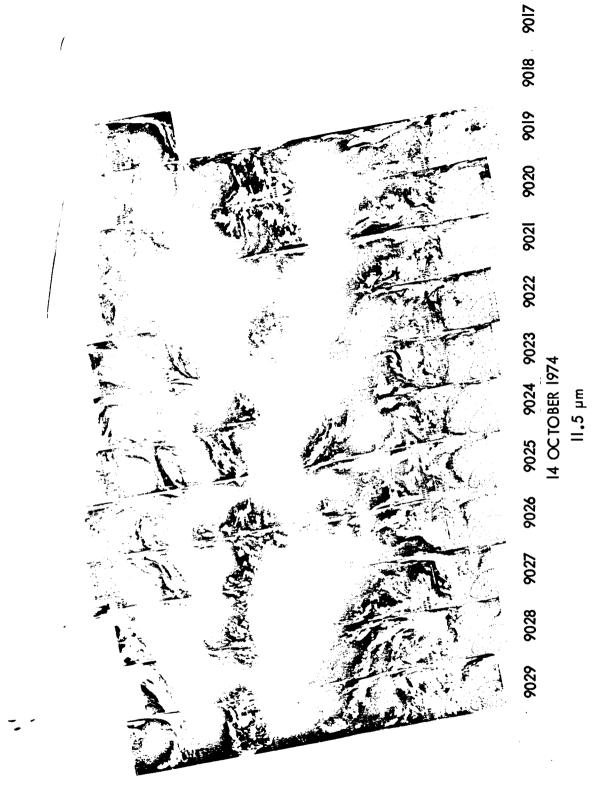
4-150

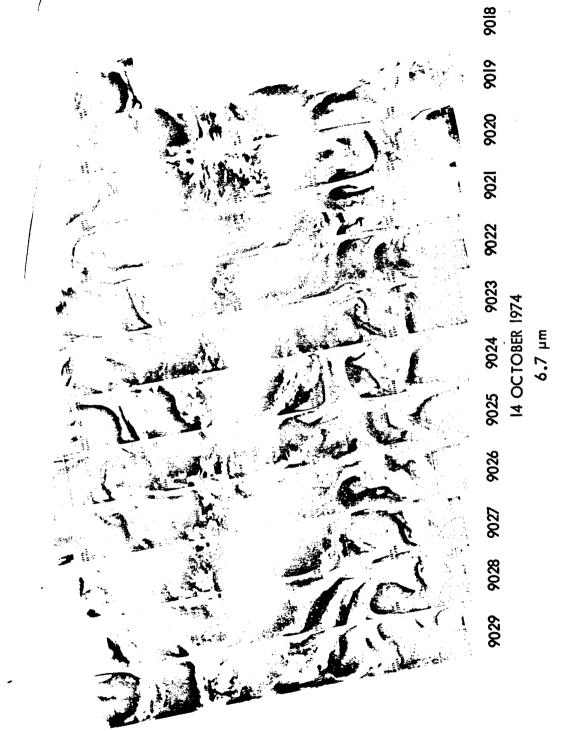


**4-**151







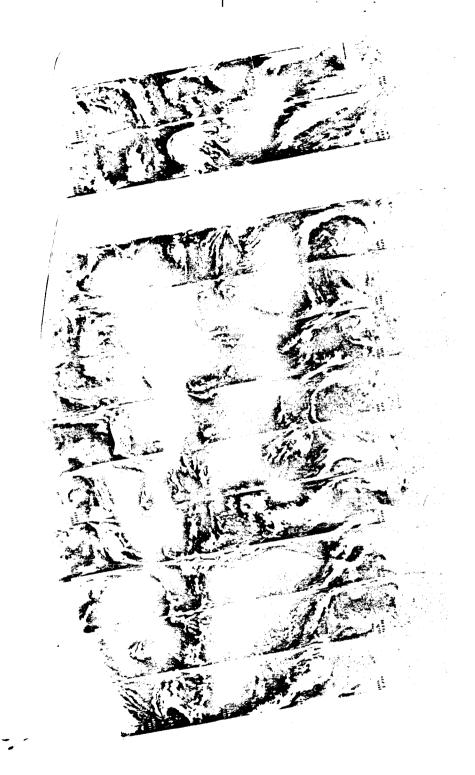




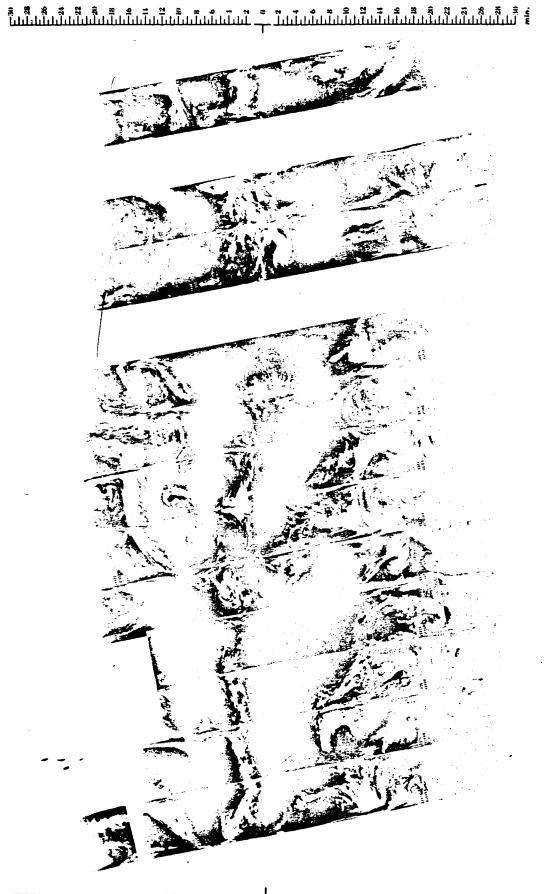
<del>2031</del> 15 OCTOBER 1974 

903%

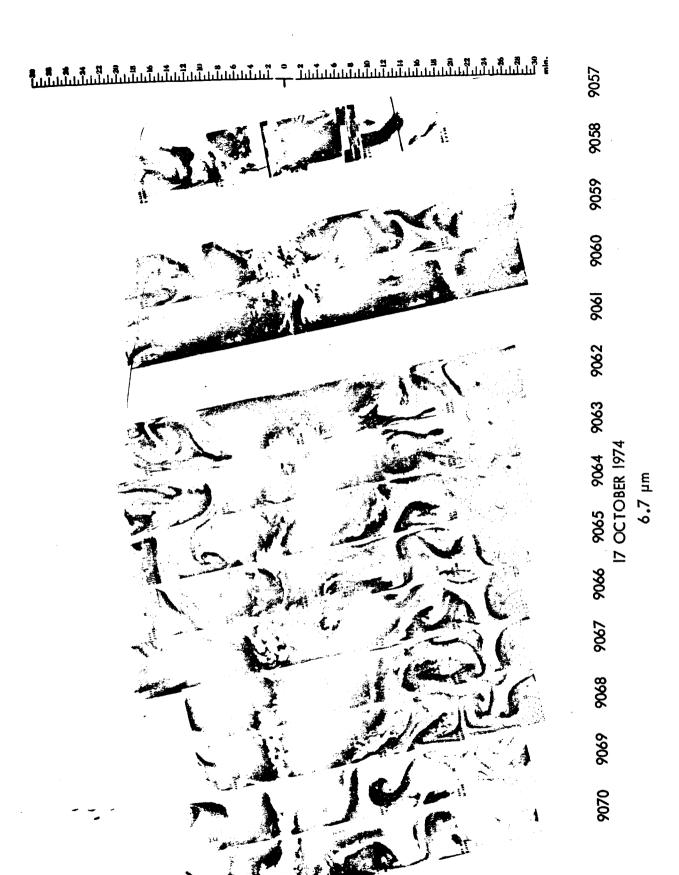
15 OCTOBER 1974 6.7 µm







II.5 µm





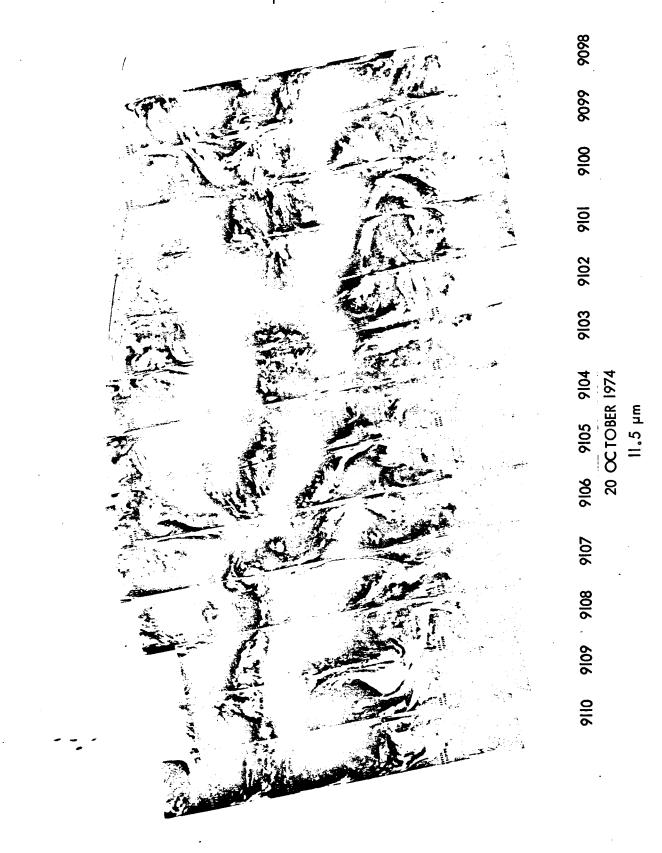
9079 9078 9077 I8 OC TOBER 1974 II.5 µm 18 





9086 9085 3 9092 9091 5 19 OCTOBER 1974 6.7 µm 

4-165





<u>1016</u> 9103 9106 9105 9104 20 OC TOBER 1974 6.7 µm 9108 6016



22 OC TOBER 1974

**្នុង ន**ុង ដូច្នើន ប្រាក្សាក្មេចក្រុមប្រជាព្រះប្រជាព្រះប្រជាក់ ក្នុង ប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រជាព្រះប្រ

9142 :

9143

9147

9149

9150

9146 9145 9144 23 OC TO BER 1974 11.5 µm





9144

23 CC TOBER 1974 6.7 µm

 $\frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}$ 

24 OCTOBER 1974 11.5 µm





9160 9159 9158 24 OCTOBER 1974 6.7 µm 

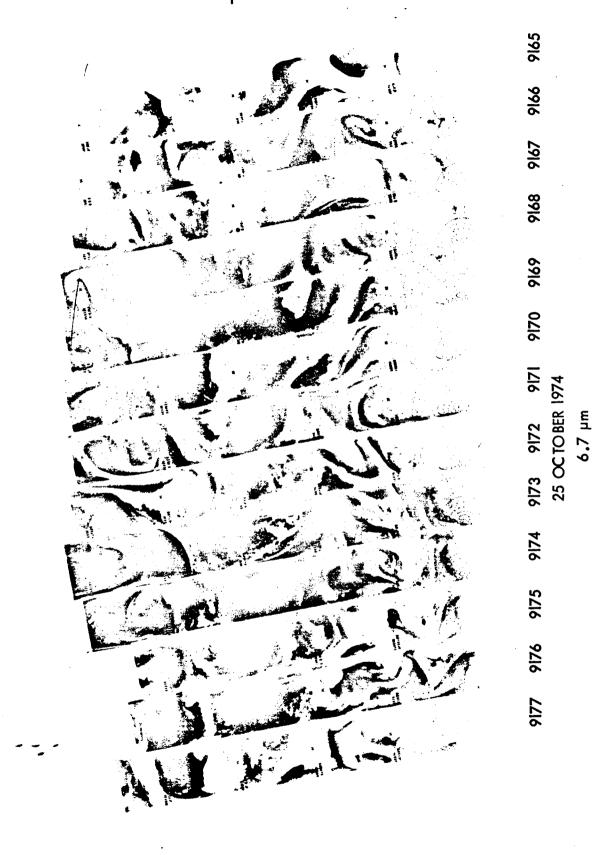
**Linuthin** Control of the second of the seco



9173 9172 9171 25 OC TO BER 1974 11.5 µm

9175

9176

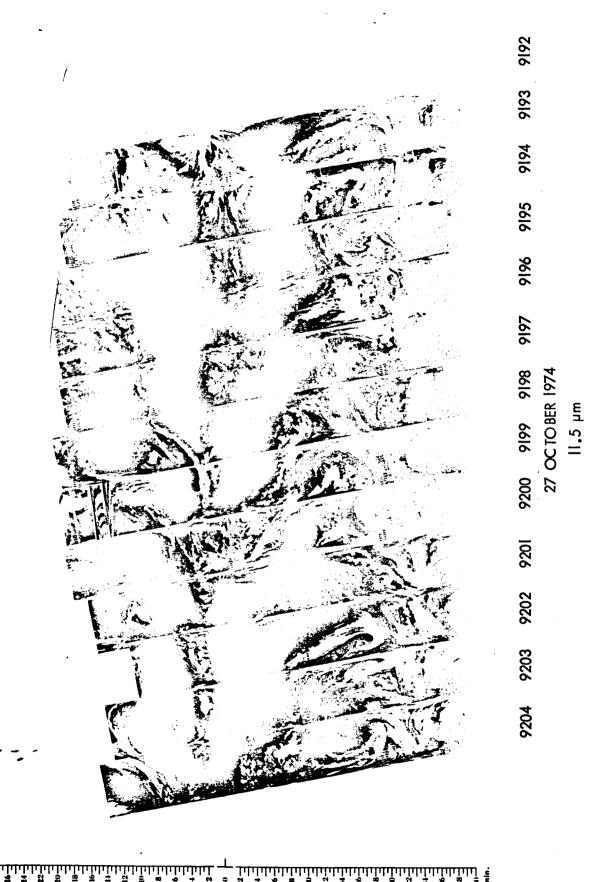




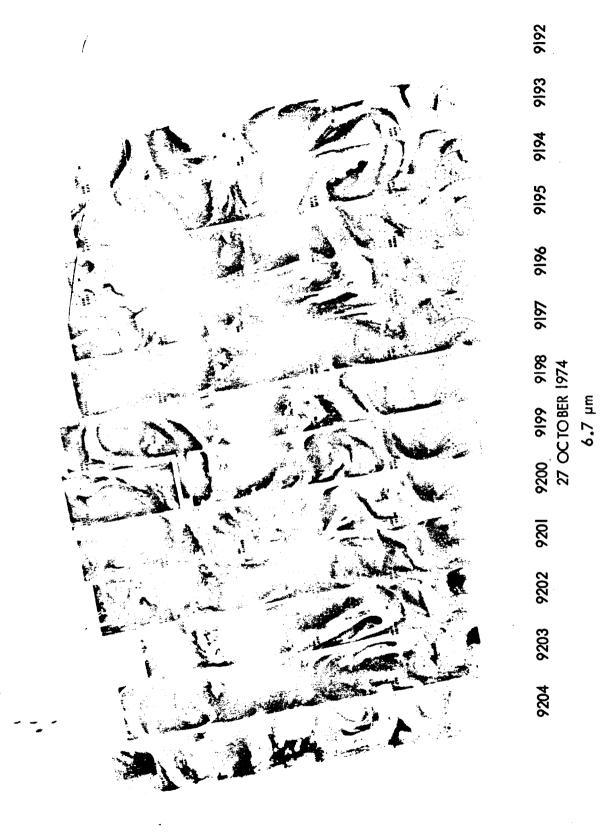
4-178

26 OCTOBER 1974 6.7 µm

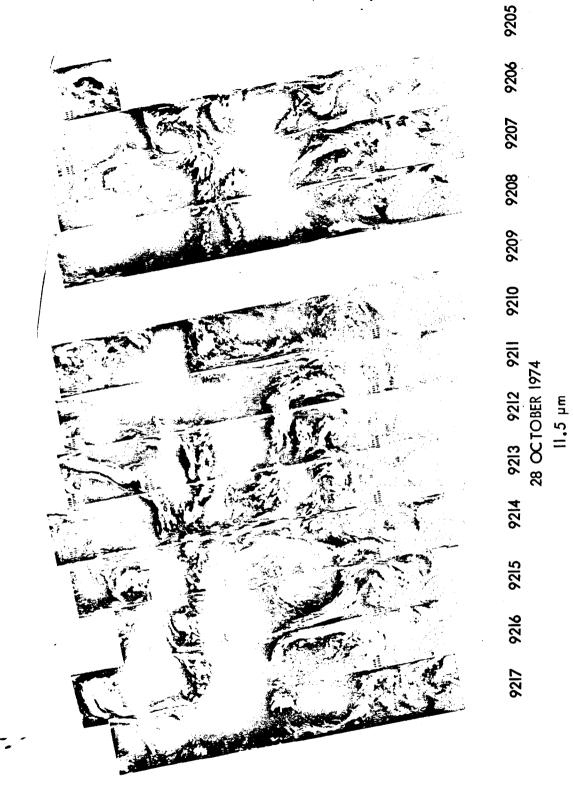


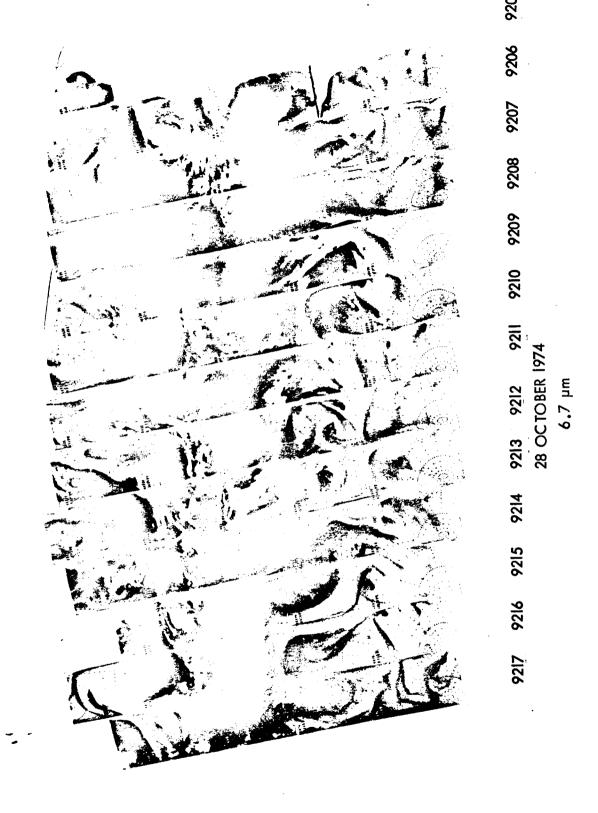


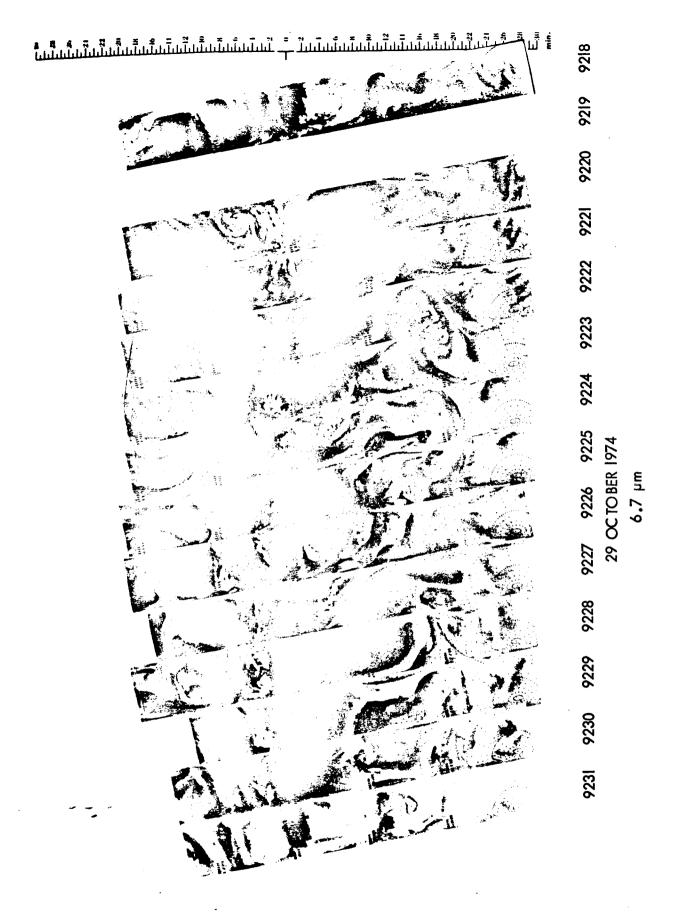
4-180



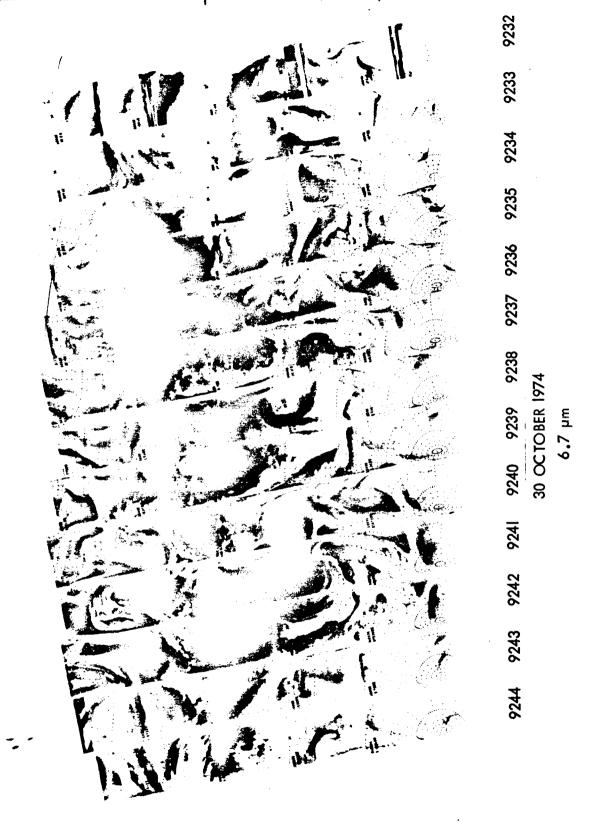
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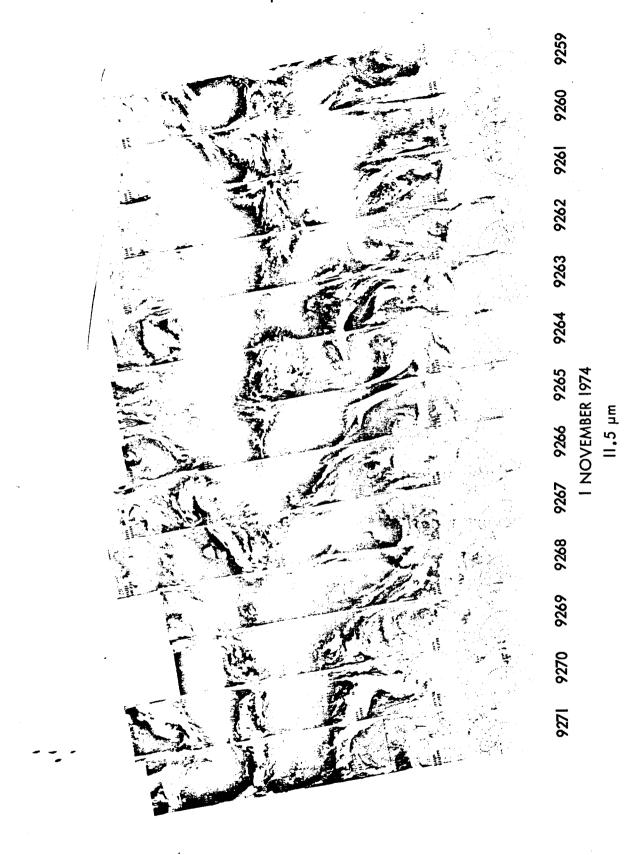


### $\frac{1}{2} \frac{1}{2} \frac{1}$

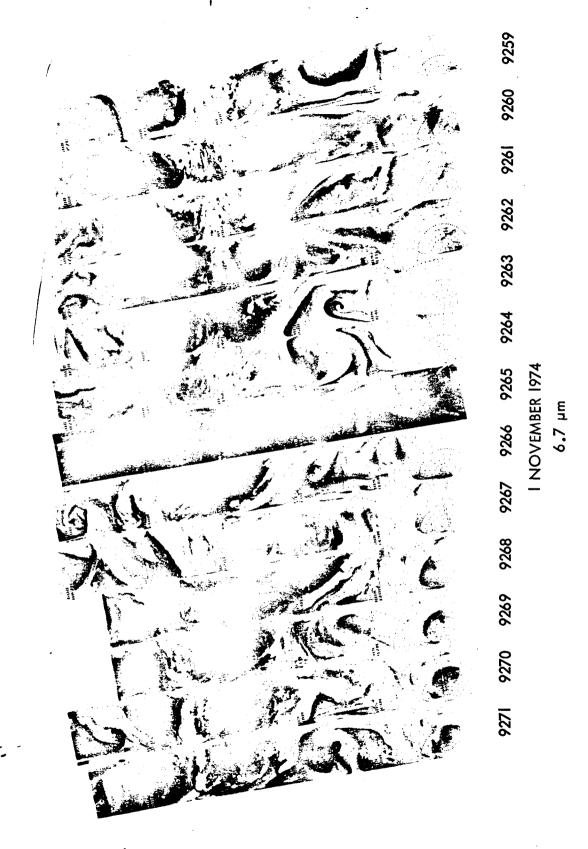








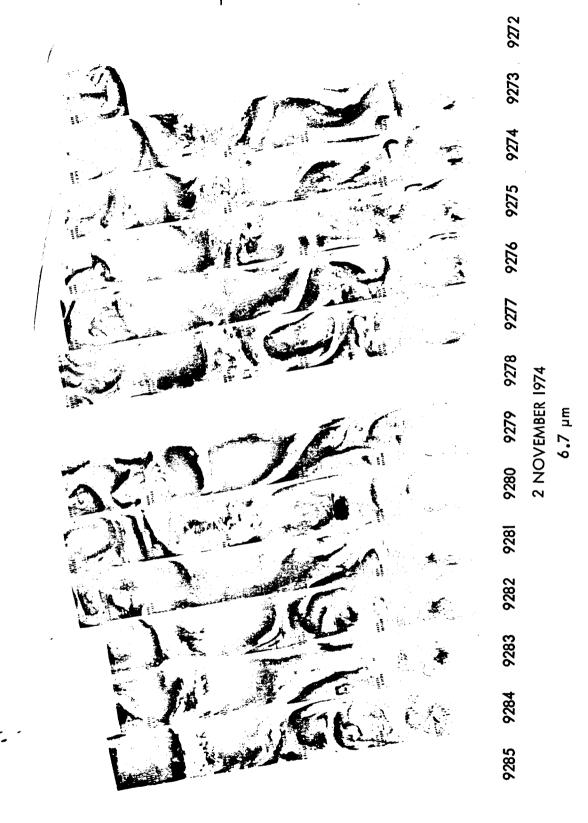
 $\mathbf{z} = \mathbf{z} + \mathbf{z} +$ 

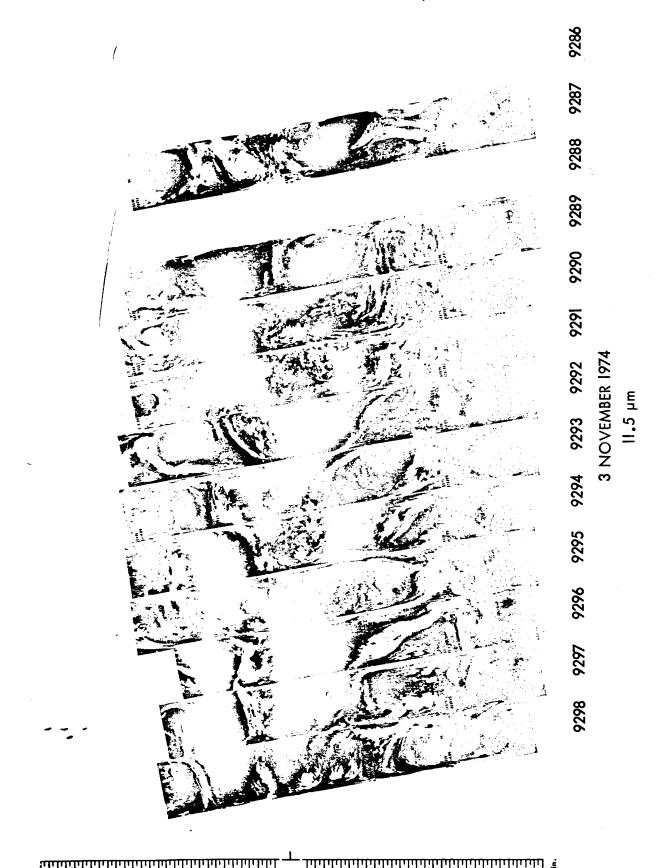


9280 9279

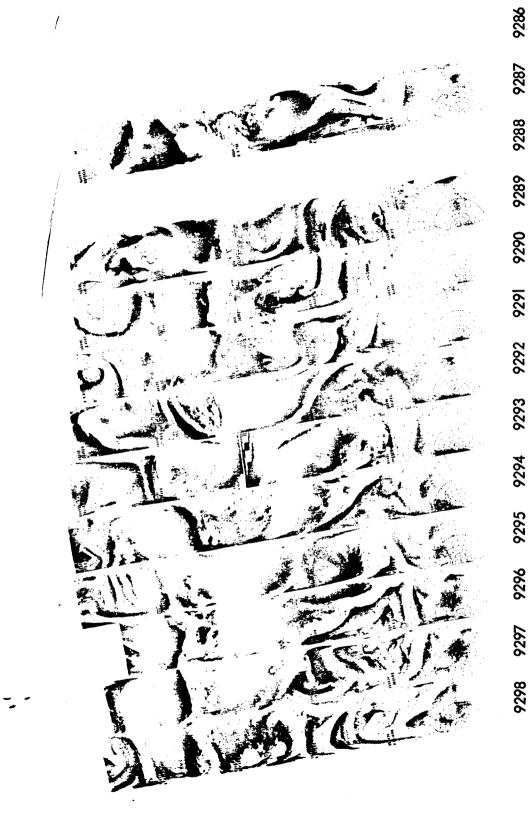
2 NOVEMBER 1974 II.5 µm



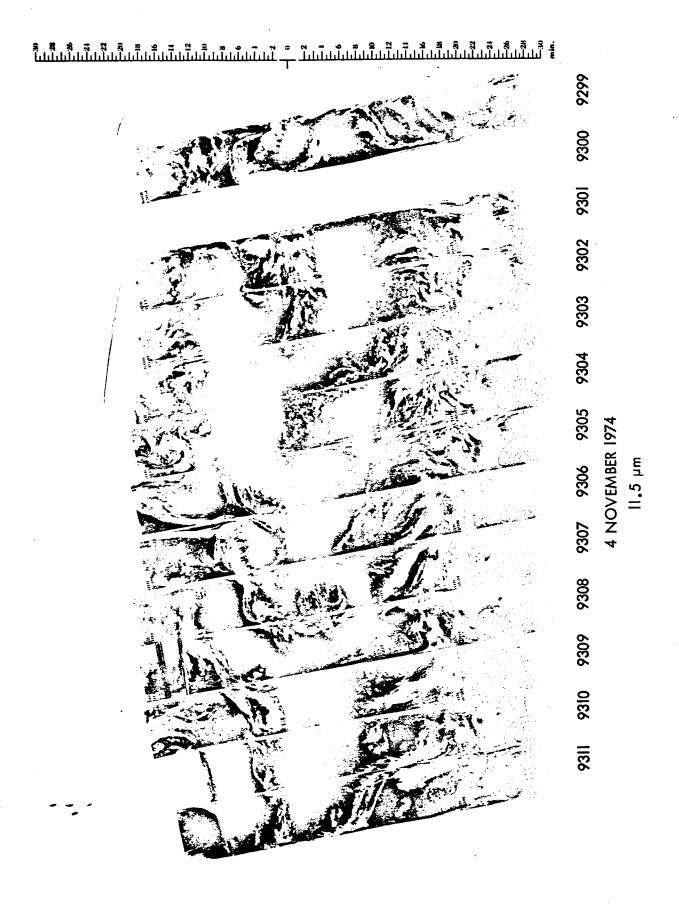


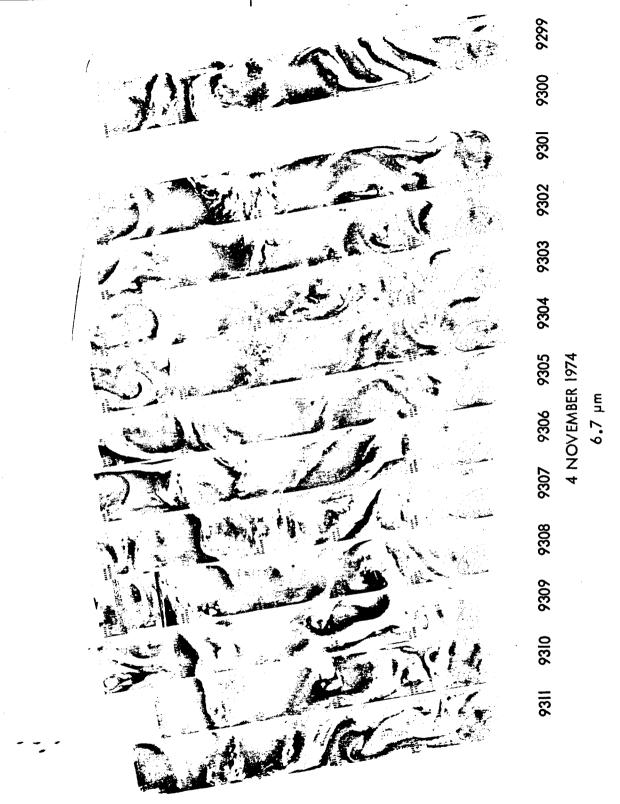


4-194



3 NOVEMBER 1974 6.7 µm



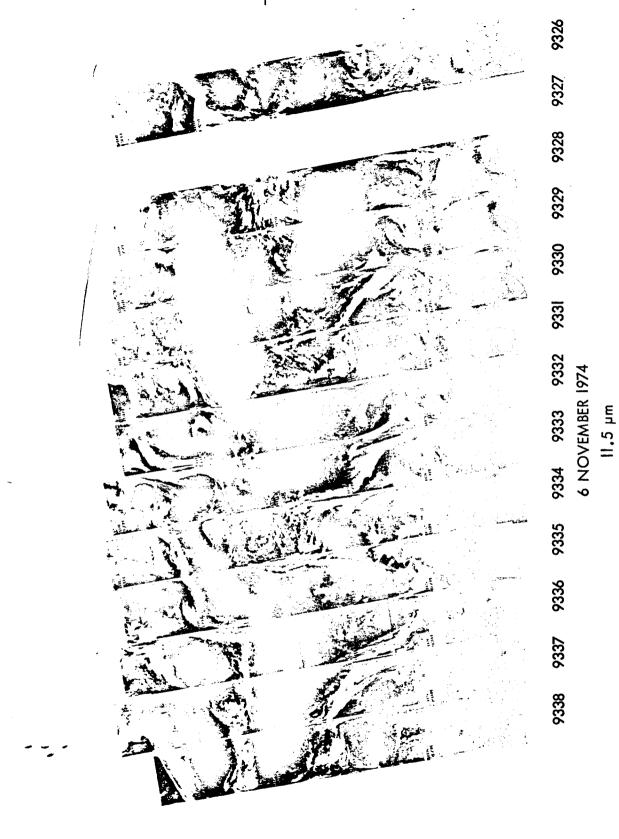


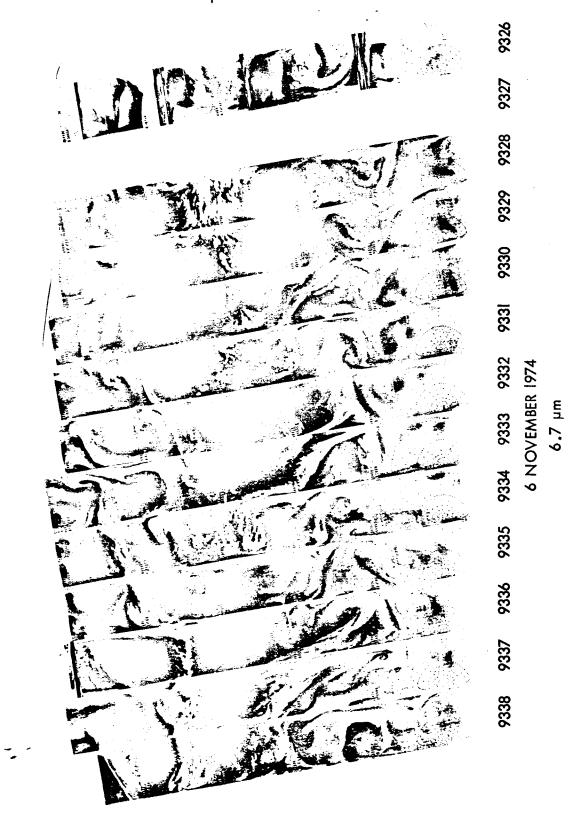


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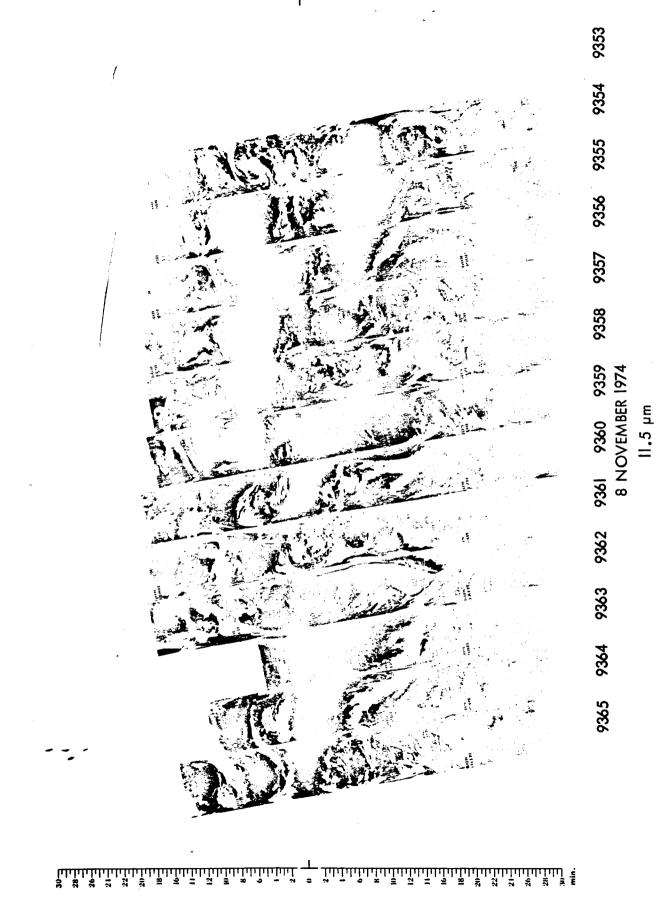


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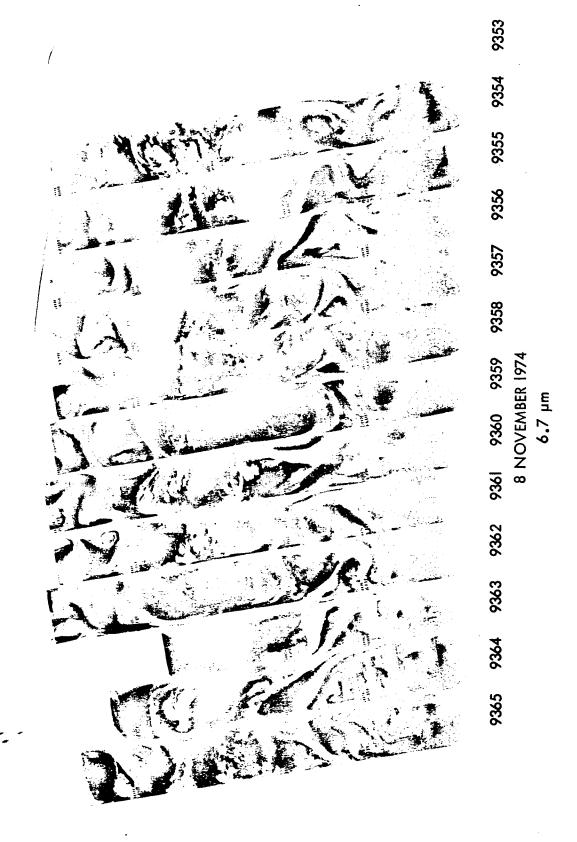




**4-202** 



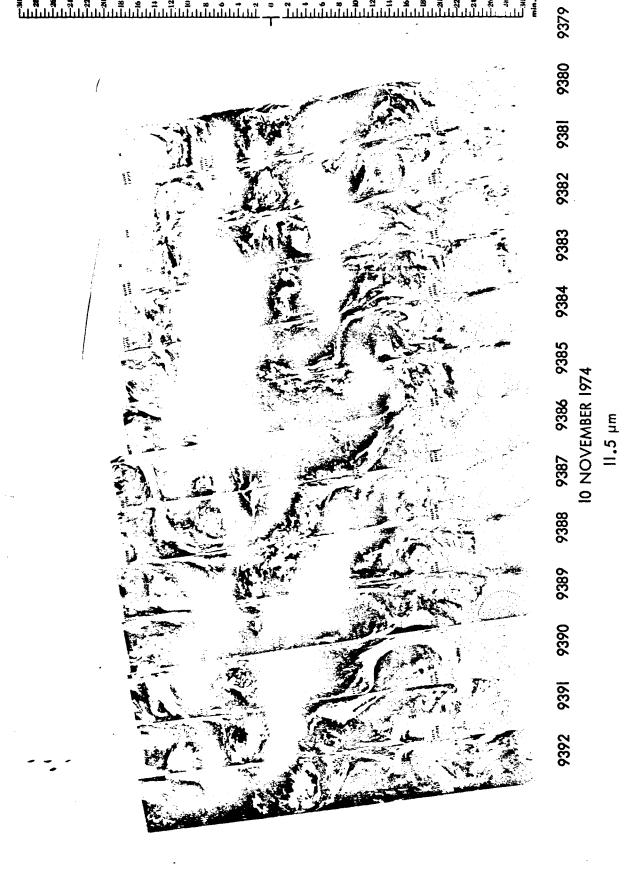
4-204

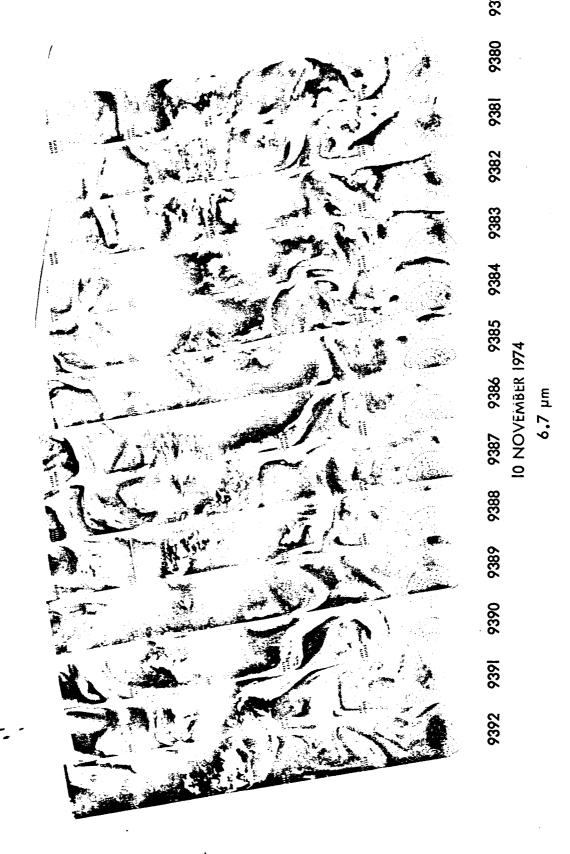




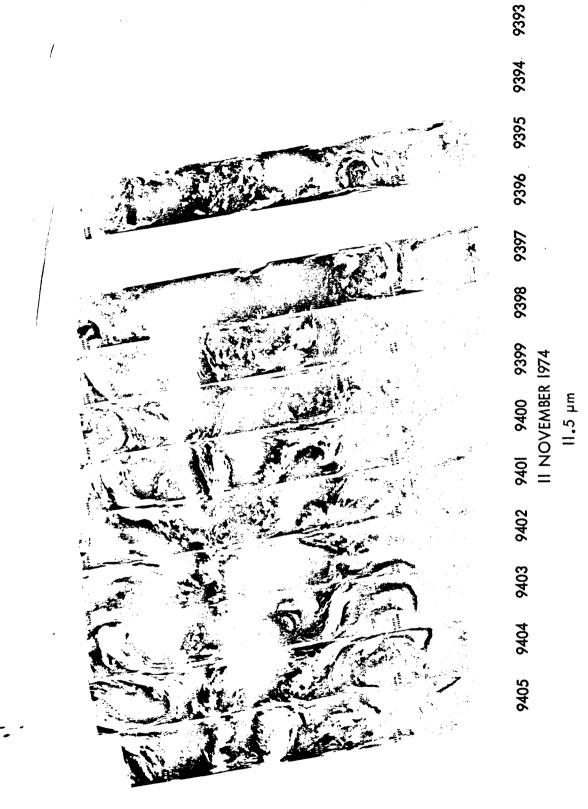
9 NOVEMBER 1974 6.7 µm 

 $\frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{2} \frac{1}$ 

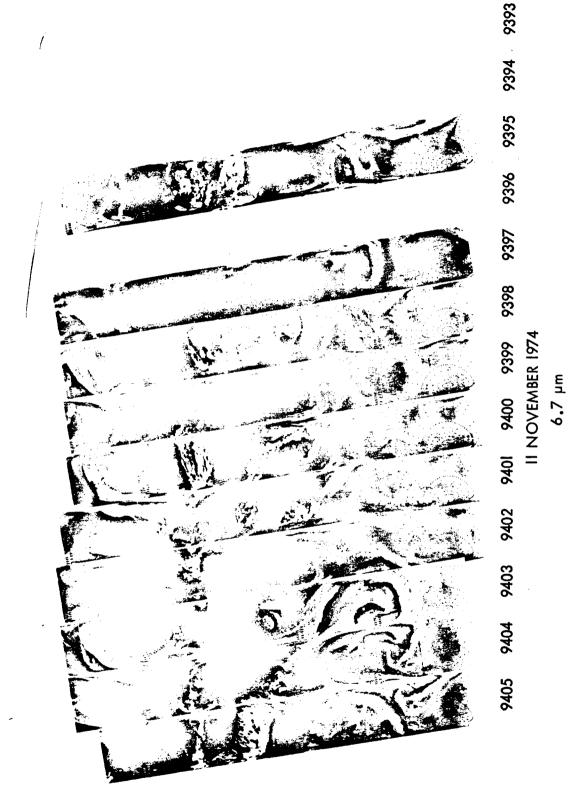




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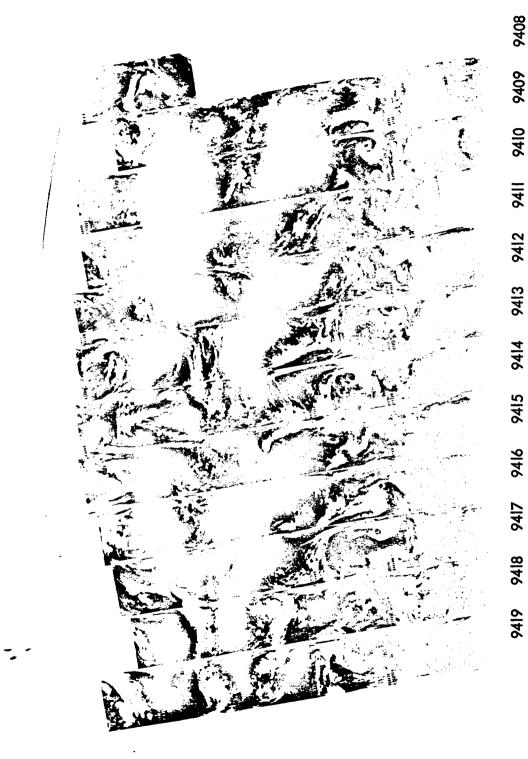


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12 NOVEMBER 1974

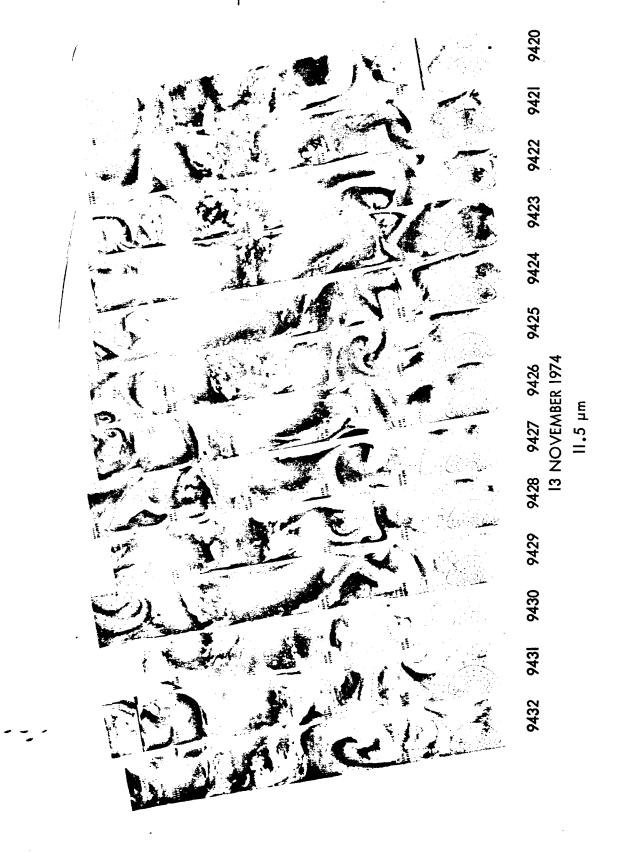
II.5 µm



12 NOVEMBER 1974 6.7 µm 



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13 NOVEMBER 1974 

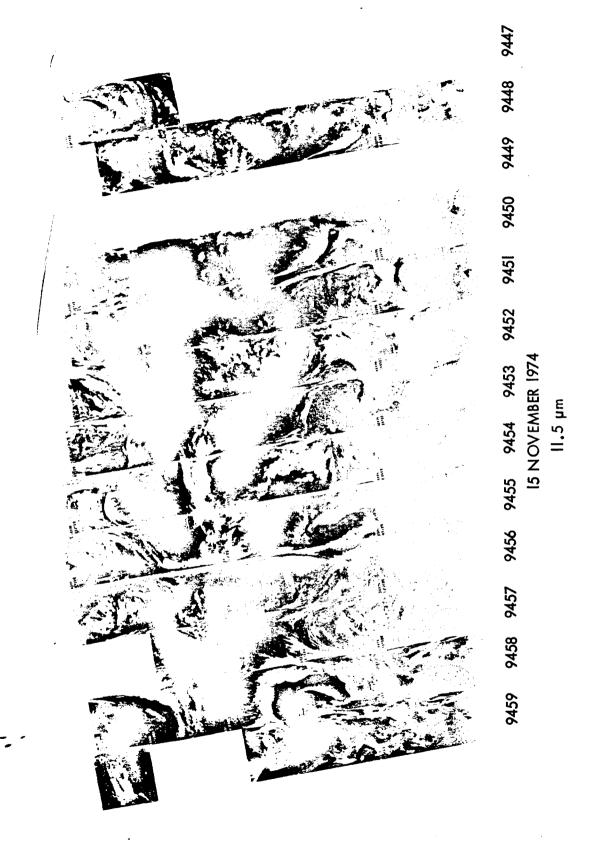
6.7 µm

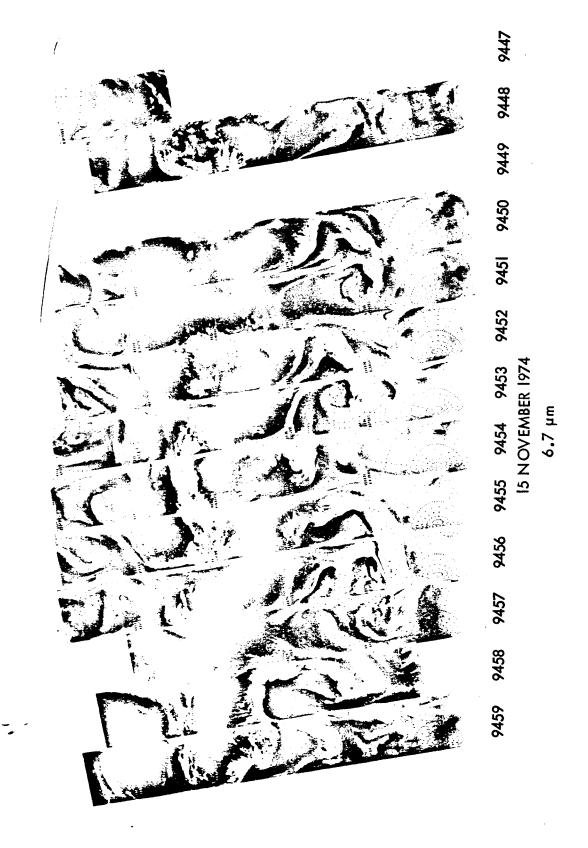
4-215

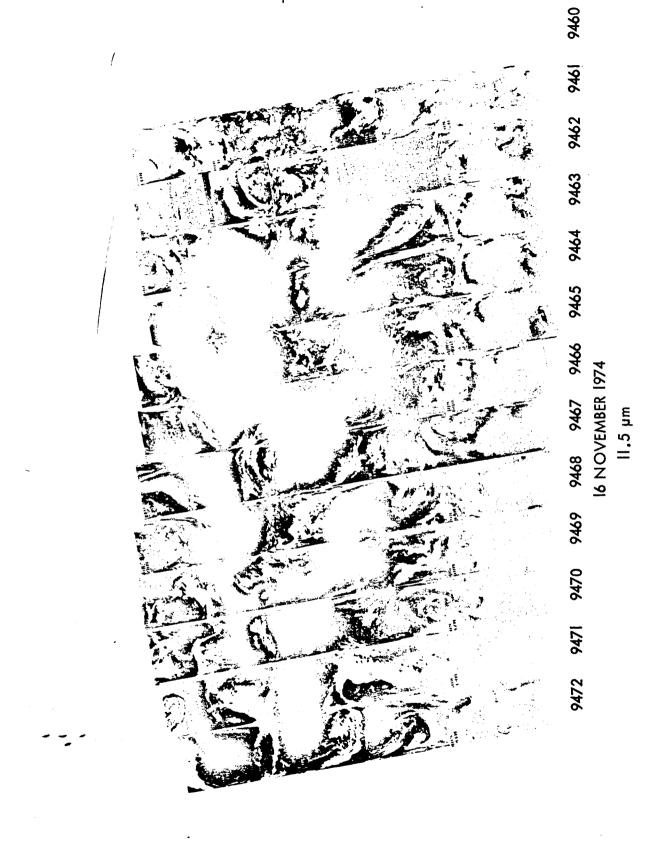


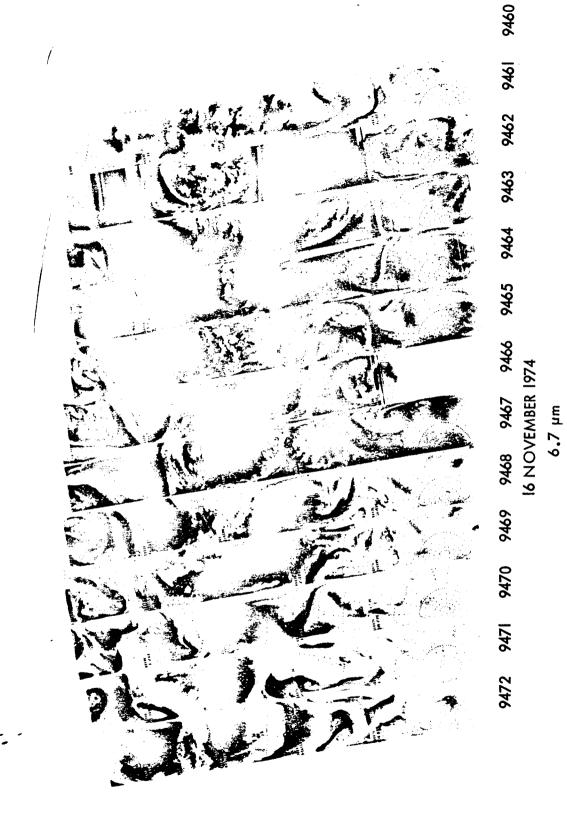


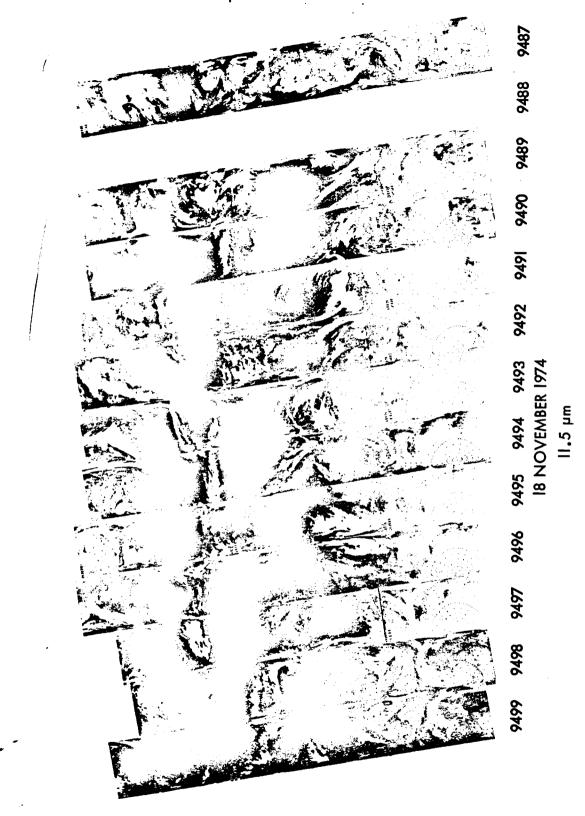
14 NOVEMBER 19746.7 μm

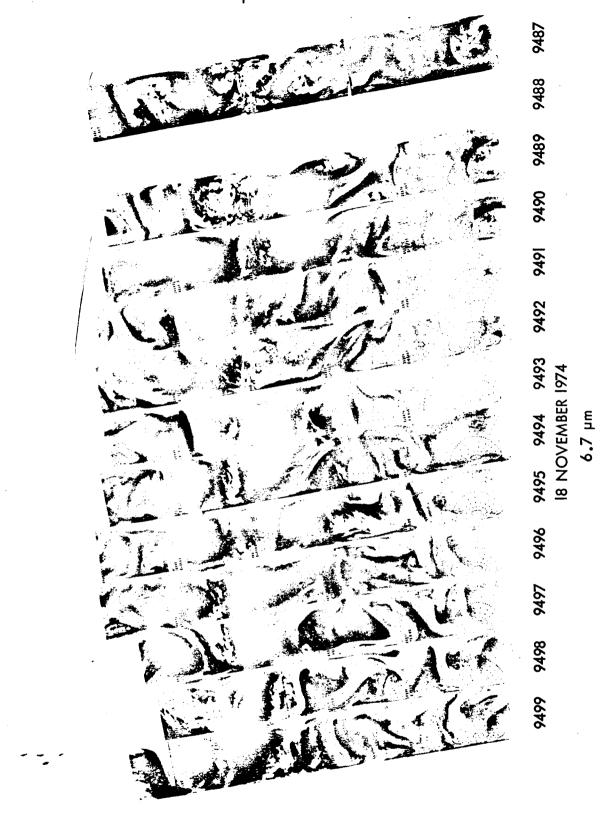


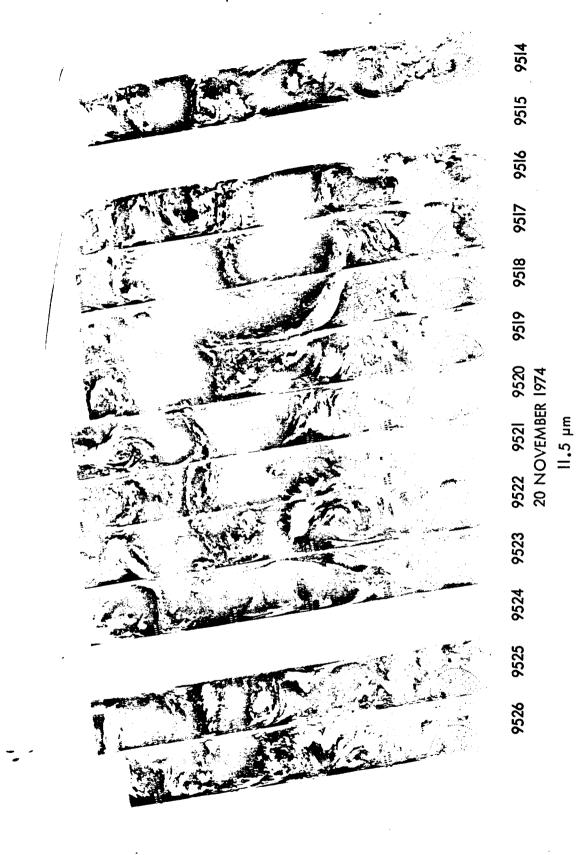


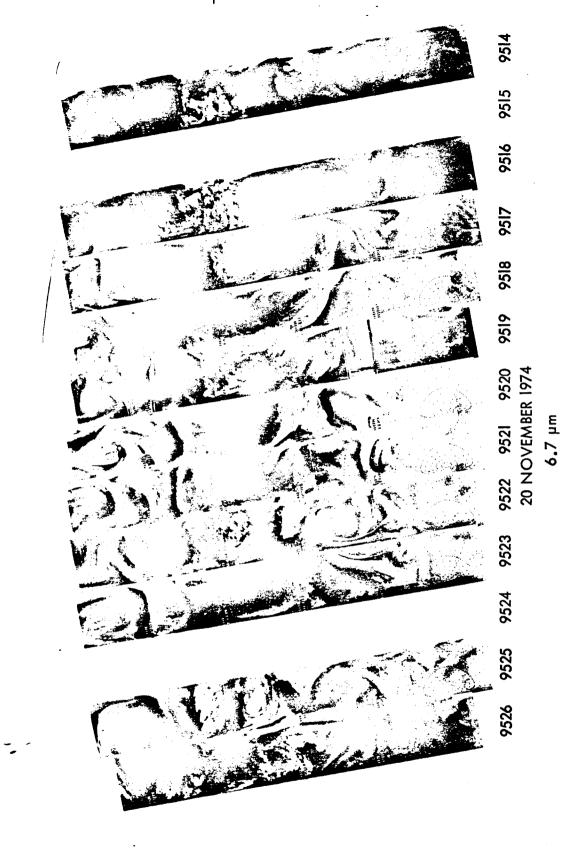


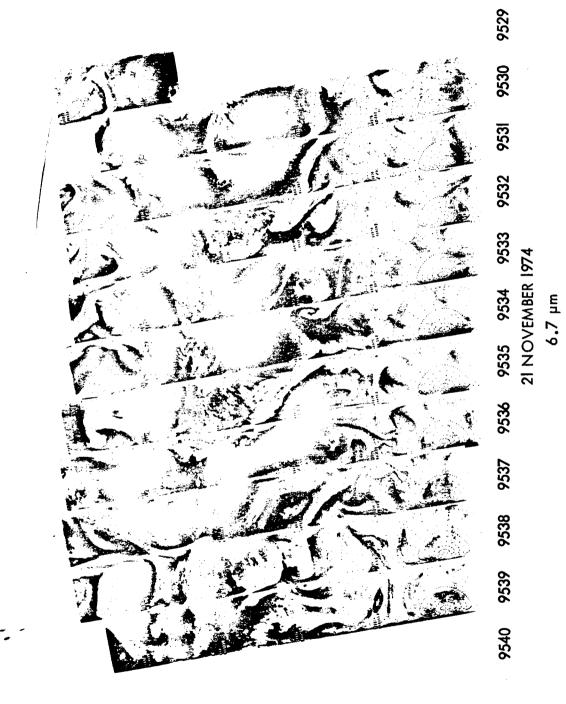


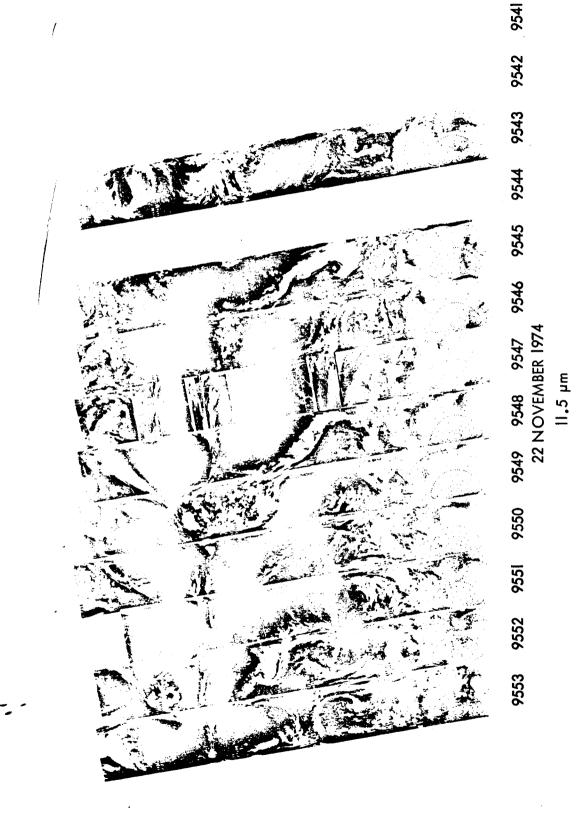




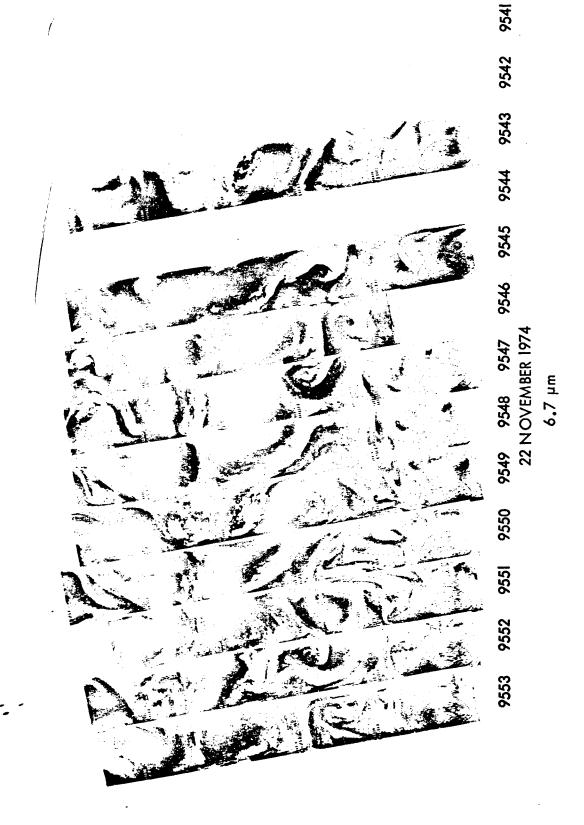


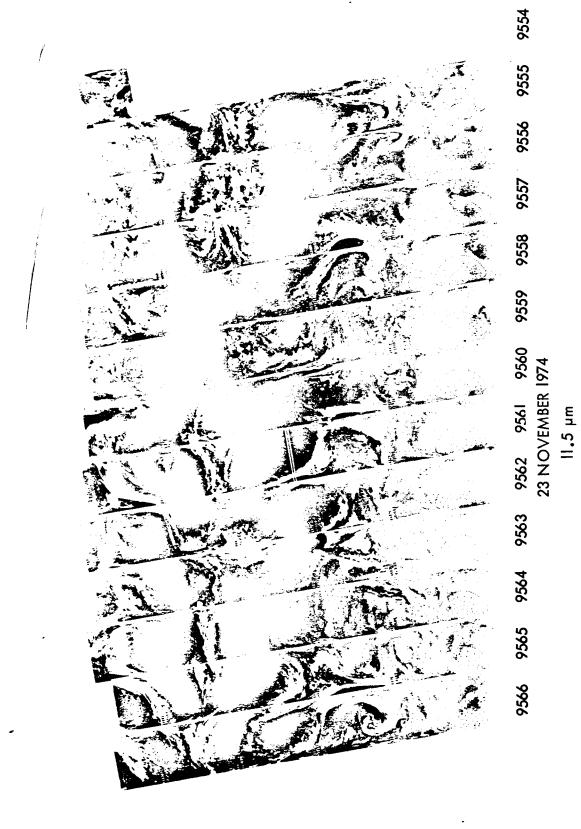


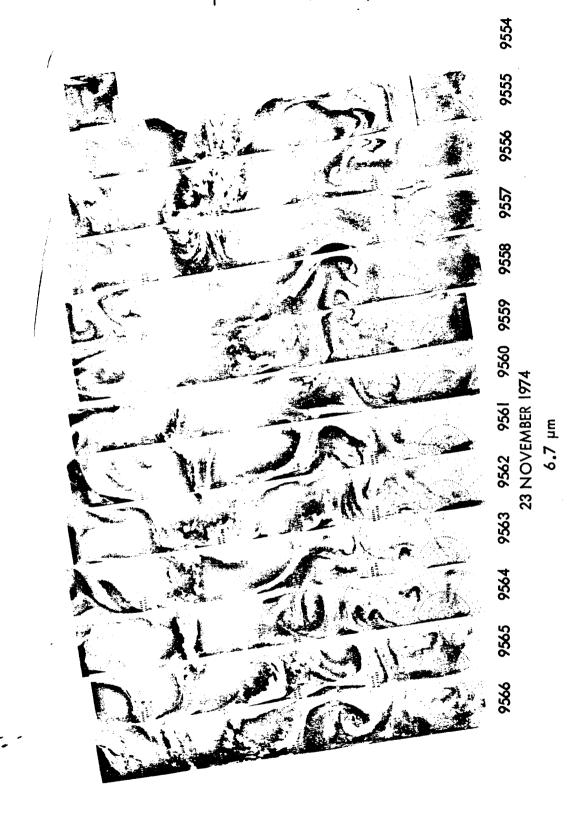


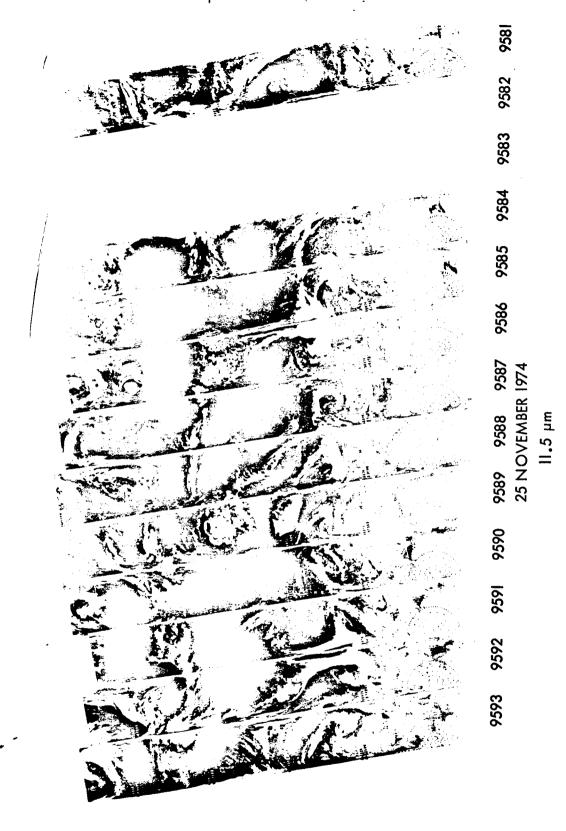


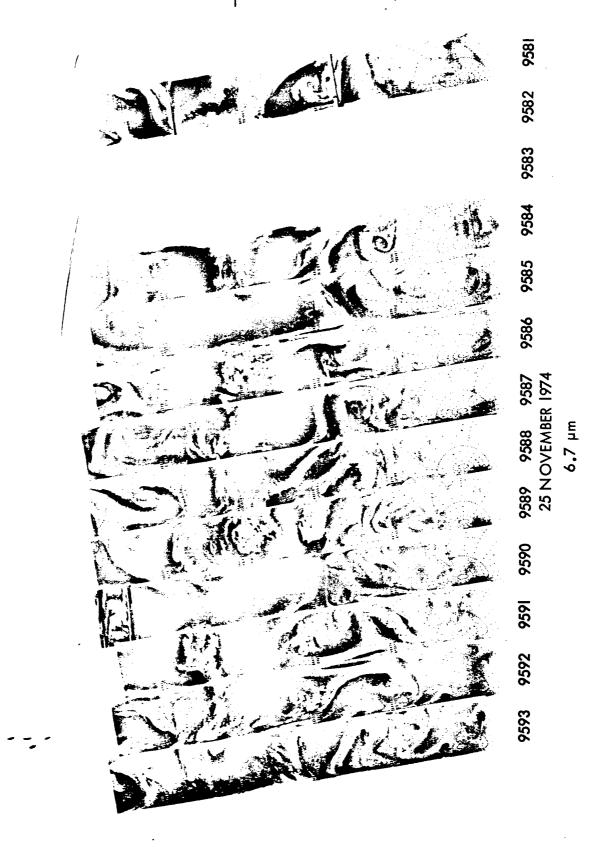
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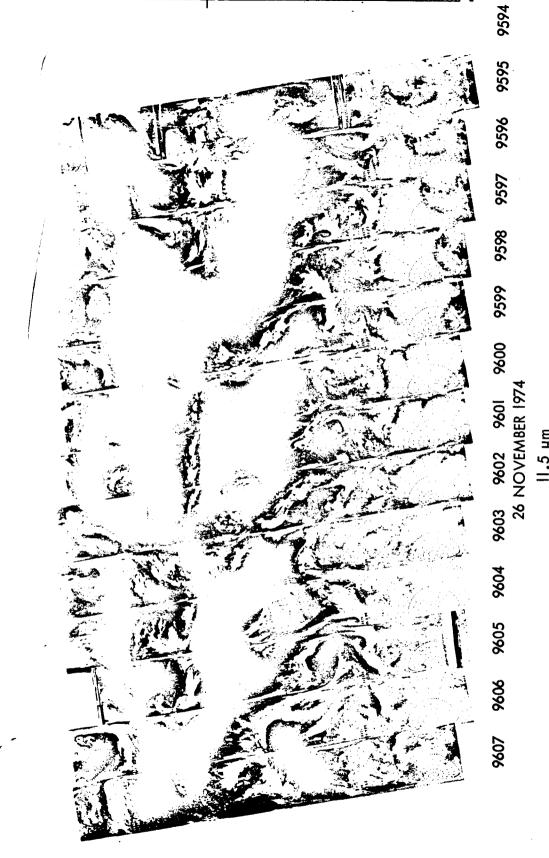


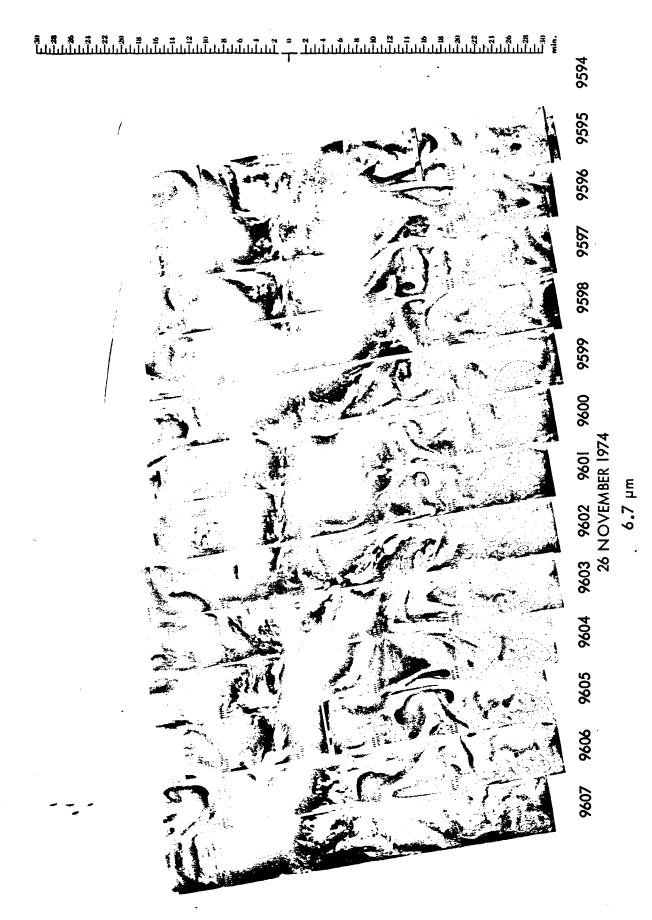


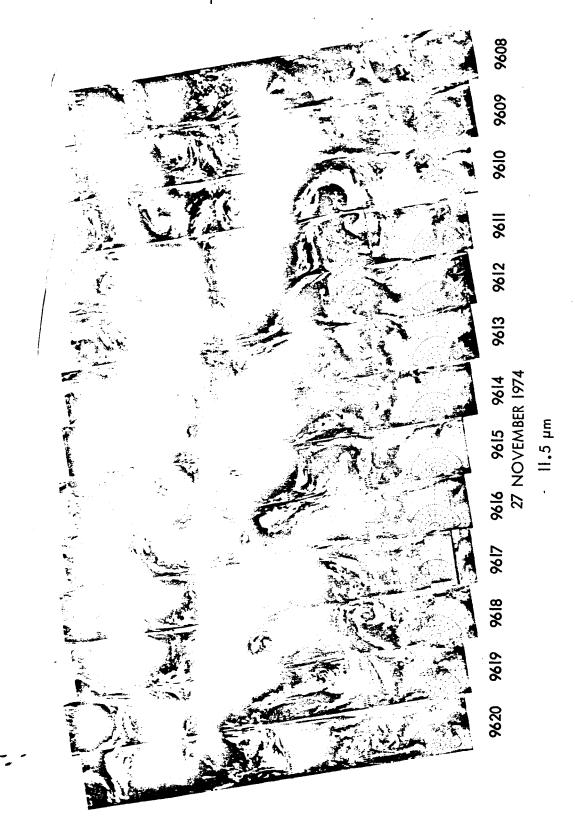


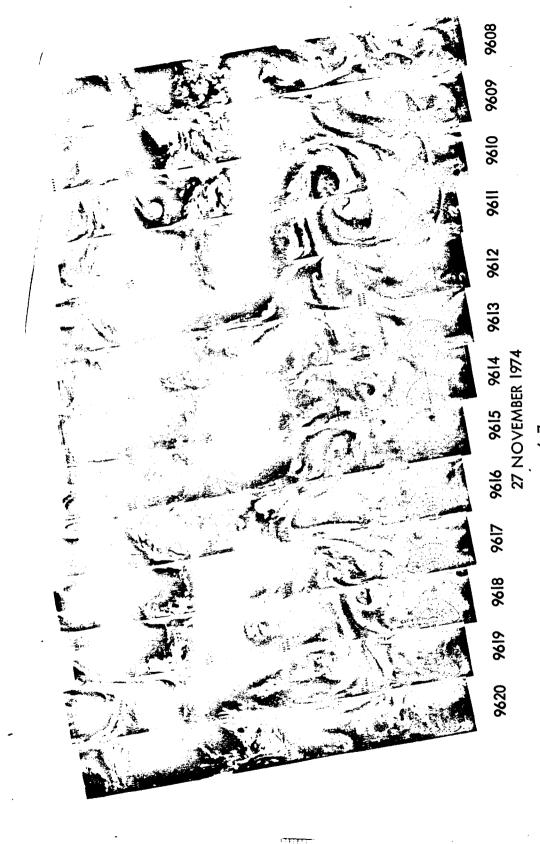


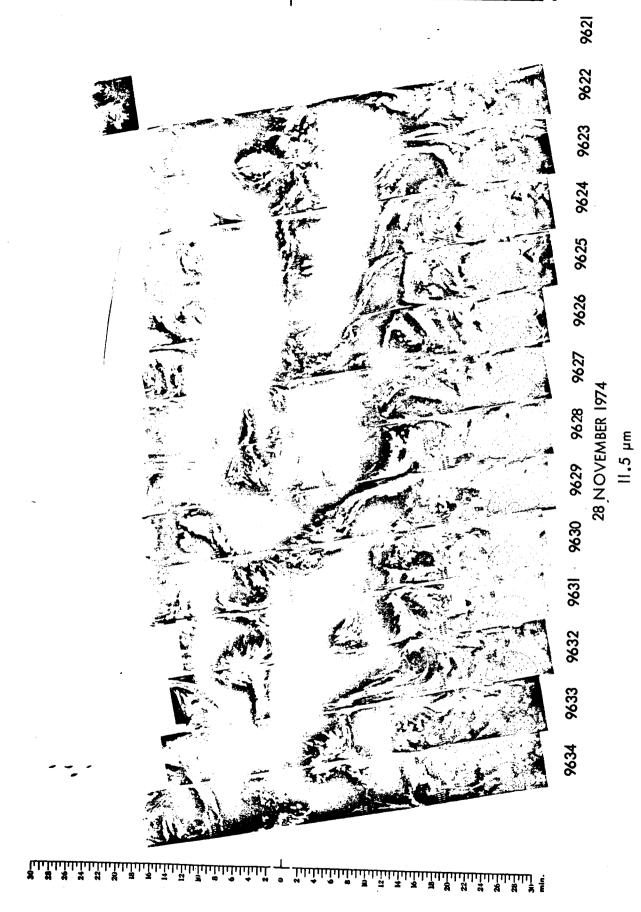




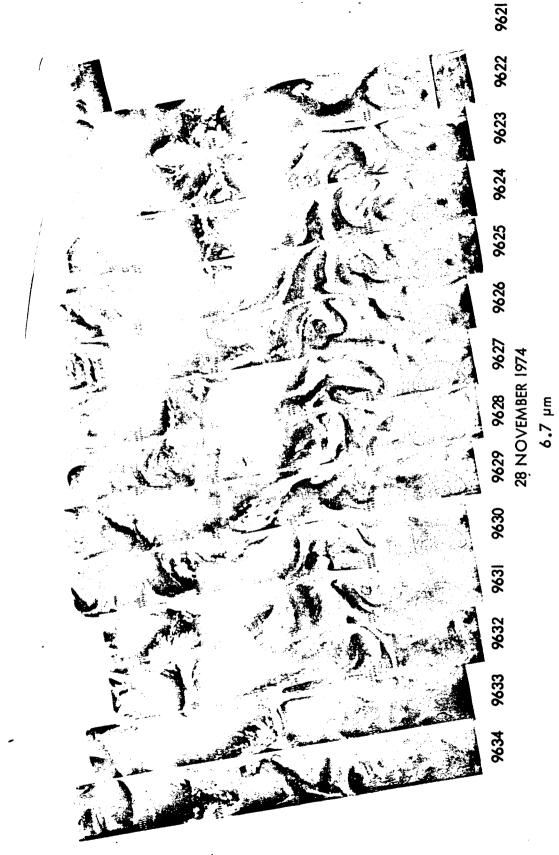


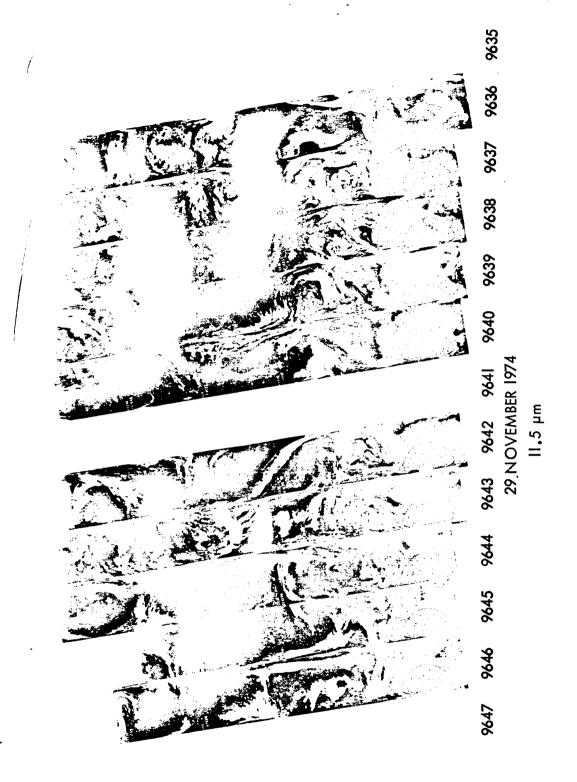


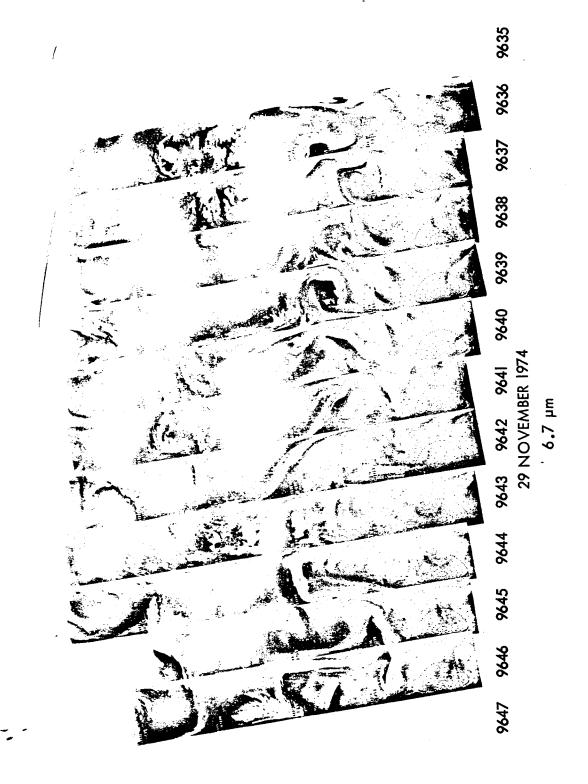




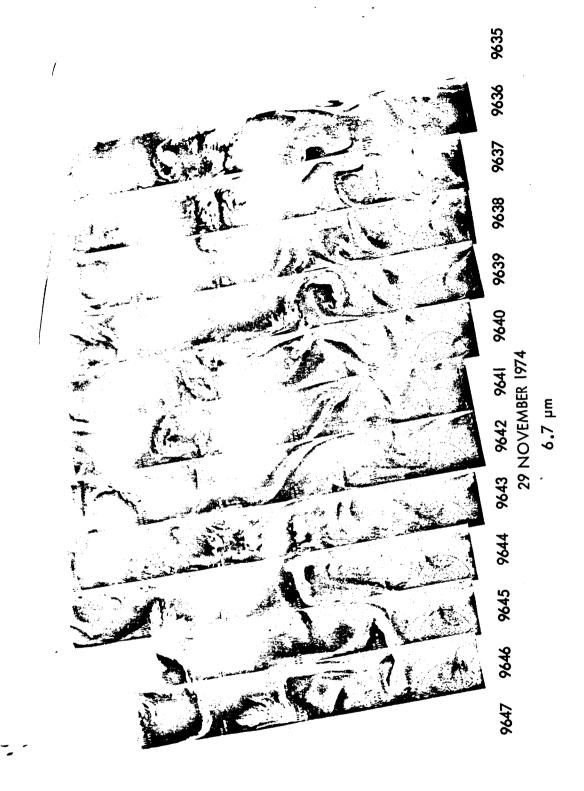
4-244

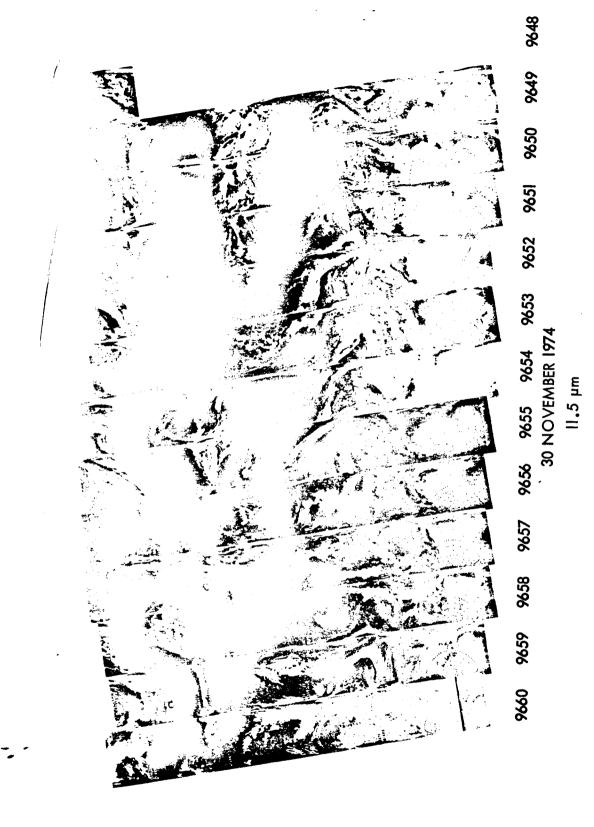


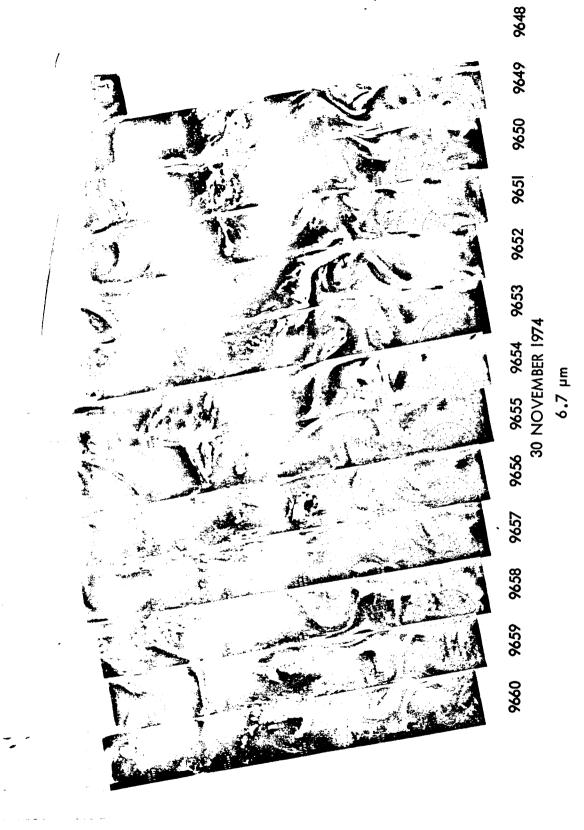




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#### **SECTION 5**

#### CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE

This section presents all corrections or additions to <u>The Nimbus 5 User's Guide</u> which now are known to be necessary. If additional corrections are required, they will appear in a subsequent catalog. All previous corrections will be carried forward cumulatively into each new catalog.

#### 5.1 THIR Corrections to the User's Guide

Table 5-1
(First presented in Volume 1)

This table replaces Table 2-3 (page 31) in The Nimbus 5 User's Guide.

Table 2-3

THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 11.5 µm Channel

		Bolometer Temperature (°C)				
		0	10	20	30	40
Blackbody Temperature (*K)	0*	-0.405	-0.407	-0.413	-0, 421	-0. 425
	180	-0.618	-0.617	-0.617	-0.617	-0.606
	190	-0.711	-0.709	-0, 706	-0.702	. <b>-0.</b> 685
	200	-0.829	-0, 825	-0.820	-0.811	-0.785
	210	-0.976	-0.970	-0.961	-0. 946	-0.911
	220	-1.153	-1.144	-1, 130	-1.109	-1.062
	230	-1, 363	-1.351	<b>-1.</b> 332	-1, 302	-1.240
	240	-1.606	-1.591	-1.565	-1.526	<b>-1.</b> 448
	250	-1, 886	-1.867	<b>-1.</b> 834	-1. 783	-1.686
	260	-2, 202	-2.178	-2,137	-2.074	-1. 955
	270	-2.555	-2,526	-2,476	-2.399	-2, 256
	280	-2.946	-2.911	-2,851	-2.759	-2.589
	290	-3. 375	-3, 334	-3, 262	-3.153	-2, 954
	300	-3.841	-3, 793	-3, 709	-3, 582	-3, 352
	310	-4. 345	-4.289	-4.192	-4. 045	-3. 781
	320	-4.886	-4.822	-4, 711	-4.543	-4. 241
	330	-5.463	-5, 391	-5. 264	-5, 074	-4. 733

<sup>\*</sup>Space level

## Table 5-2 (First presented in Volume 1)

This table replaces Table 2-4 (page 32) in The Nimbus 5 User's Guide.

Table 2-4 THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 6.7  $\mu$ m Channel

180		•					
0*       -0.507       -0.518       -0.532       -0.58         180       -0.607       -0.618       -0.632       -0.68         185       -0.644       -0.654       -0.669       -0.68         190       -0.692       -0.702       -0.716       -0.73         195       -0.752       -0.762       -0.776       -0.75         200       -0.827       -0.838       -0.851       -0.87         205       -0.921       -0.931       -0.944       -0.96         210       -1.035       -1.045       -1.058       -1.07         225       -1.172       -1.182       -1.195       -1.21         220       -1.337       -1.347       -1.359       -1.37         225       -1.533       -1.543       -1.554       -1.57         230       -1.764       -1.774       -1.784       -1.80         240       -2.350       -2.355       -2.363       -2.37         245       -2.704       -2.714       -2.721       -2.73         250       -3.115       -3.125       -3.131       -3.14		ature (°C)	meter Tem	Bolo			
180	40	30	20	10	0		
255	56       -0.576         55       -0.674         92       -0.710         39       -0.756         98       -0.814         73       -0.888         66       -0.978         78       -1.089         15       -1.383         79       -1.383         71       -1.797         78       -2.059         78       -2.362         74       -2.711         75       -3.565         7       -4.077	30  -0.556 -0.655 -0.692 -0.739 -0.798 -0.873 -0.966 -1.078 -1.215 -1.379 -1.573 -1.801 -2.068 -2.378 -2.734 -3.142 -3.605 -4.127 -4.717	-0. 532 -0. 632 -0. 669 -0. 716 -0. 776 -0. 851 -0. 944 -1. 058 -1. 195 -1. 359 -1. 554 -1. 784 -2. 052 -2. 363 -2. 721 -3. 131 -3. 597 -4. 122	-0.518 -0.618 -0.654 -0.702 -0.762 -0.838 -0.931 -1.045 -1.182 -1.347 -1.543 -1.774 -2.043 -2.355 -2.714 -3.125 -3.592 -4.119	-0.507 -0.607 -0.644 -0.692 -0.752 -0.827 -0.921 -1.035 -1.172 -1.337 -1.533 -1.764 -2.033 -2.350 -2.704 -3.115 -3.582 -4.110 -4.704	180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265	Temperature

The following information supplements that in paragraph 2.4.1.2 (page 34) in The Nimbus 5 User's Guide. (First presented in volume 5.)

Beginning with orbit 3581 (4 September 1973), the ten-step gray scale will no longer be attached to each orbit of 70mm archival film. However, one gray scale will be attached at the beginning and end of each reel of archival film. A user who requests THIR imagery recorded after orbit 3581 will be furnished a gray scale wedge only if he specifically requests it.

5.2 SCMR Corrections to the User's Guide

There are no SCMR corrections to the User's Guide.

5.3 ESMR Corrections to the User's Guide (First presented in Volume 3)

The following information replaces the next to the last paragraph on page 103 (Section 4.4.5) of The Nimbus 5 User's Guide.

ESMR grid print maps of calibrated brightness temperatures are available from NSSDC in three different map projections. These are: (1) Polar stereographic, (2) Mcreator, and (3) Horizontal stereographic (Bull's-eye). Program options permit contouring of the grid print maps, printing of map titles, and using fewer than the full 78 beam positions.

For each map requested, the following information is needed:

- Satellite and sensor
   Nimbus 5 ESMR
- Map type

- 1. Polar stereographic
- 2. Mercator
- 3. Horizontal stereographic (Bull's-eye)
- Map scaleScale of map in millions
- Geographic area
  - 1. For a Polar stereographic map specify latitude of map perimeter, and orientation of 0° meridian line. The standard position for the 0° meridian on a northern hemisphere map is 10° clockwise below a left-right horizontal line through the map's pole.

On a southern hemisphere map, 0° meridian is 10° counterclockwise below a left-right horizontal line through the map's pole. For other orientations of the 0° meridian, the user must specify, preferably with a sketch, the orientation desired.

2. For a Mercator map specify - latitude of upper and lower edges of map, and longitudes of left and right edges of map. Longitudes are measured west from Greenwich (0°).

3. For a Horizontal stereographic (Bull's-eye) map specify - latitude and longitude (west from Greenwich) of map center, pseudo co-latitude

of map perimeter (number of degrees of latitude from map center), and azimuth of 0° longitude line. If not specified, the azimuth will be located as it is for the Polar stereographic map.

- Calendar date of data requested
- Data orbit number(s)
- Beginning and end time (GMT) of the date for each map requested. These times are derived from information in Table 2-2 of each Nimbus 5 Data Catalog.

Optional specifications for each map are the following:

- ESMR beam parameters
  The user can specify, or limit, the range of beam positions used to produce each map. If no specifications are made, beam positions 1 through 78 are used.
- Map title
   For each map, the user may specify a title containing up to 70 characters.
- Normally, maps are printed without contours. To obtain contoured maps, the user must specify a contour base (or lower temperature limit e.g., 130°K) and a contouring interval (e.g., contour every 10°K). The contour program fills in the first contour interval above the contour base with the letter "A", the next interval is blank, the next is filled in with the letter "B", etc.

(The following was first presented in Volume 2.)

Table 4-4 of The Nimbus 5 User's Guide will not be supplied. Table 5-3 is to be used in its place.

As stated in The Nimbus 5 Data Catalog, vol. 1, the antenna properties changed after final calibration and rendered those numbers useless. The cause of the gross variations in antenna properties which were observed soon after launch has been determined to be a cross-polarized grating lobe. This finding has been confirmed through measurements on the engineering model and on the proto/flight model of the ESMR, and through theoretical calculations. The problem does not exist for the near-nadir beam positions, so those positions are unaffected. A quantitative discussion of this problem is included in the report of the Nimbus 5 ESMR Anomaly Review Committee.

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An empirical calibration has been developed which removes the effect of the lobe structure and antenna loss, which vary with position, and roughly corrects for angular variations in viewing geometry. In this calibration scheme the antenna loss ratio is assumed to be 1.56 for all temperatures and beam positions, and a linear correction is applied to the data. The correction is given by:

$$T_i' = A_i T_i + B_i$$

where  $T_i$  is the corrected brightness temperature for the i-th beam position and  $T_i$  is the brightness temperature calculated with the assumption of a constant antenna loss.  $A_i$  and  $B_i$  are empirically derived constants given in Table 5-3.

Table 5-3

Constants for Linear Correction of Brightness Temperatures
Corresponding to ESMR Beam Positions

Corresponding to Louist Deam Toststons					
Beam Position	A	B(°K)	Beam Position	A	B(°K)
1	1,058	4	27	0.941	11
2	1.027	10	28	0.947	10
3	0.990	16	29	0.937	11
4	0.980	14	30	0.942	10
<b>. 5</b>	0.963	17	31	0.963	6
6	0.987	15	32	1.003	-3
7∵	0.970	17	33	1.002	-3
8	0.961	19	34	0.976	1
9-	0.969	<b>1</b> 8	35	0.988	-1
10	0.980	<b>1</b> 6	36	1.004	0
11	0.980	17	37-42	1.000	0
12	1.018	10	43	1.002	-3
13	0, 999	12	44	0.962	4
14	0.989	13	45	0.960	4
15	0.975	15	46	0.980	2
16	0.974	15	47	0.966	4
17	0.994	10	48	0.966	6
18	1.026	8	49	0.948	10
19	1,038	5	50	0.949	10
20	1.018	13	51	0.934	12
21	1.034	13	52	0.945	13
22	1.099	4	53	0.988	11
23	1.082	9	54	1.019	11
24	1.048	8	55	1.041	11
25	0.986	12	56	1, 049	14
26	0.960	10	57	1.042	15

Table 5-3 (Continued)

Beam Position	A	B(°K)	Beam Position	A	B(°K)
<b>58</b> /	1, 019	16	69	0, 955	24
59	1, 015	15	70	0.974	22
60	1.012	12	71	0, 941	26
61	0, 993	13	72	0.969	22
62	0.976	15	73	0.949	30
63	0, 998	12	. 74	0.967	22
64	0, 983	14	75	0. 956	27
65	0.998	14	76	0, 959	28
<b>66</b> /	0, 970	19	77	0.969	26
<b>67</b>	0.982	18	78	1.030	13
68	0.980	19	_	300	10

## .5.4 ITPR Corrections to the User's Guide

The following tables replace Table 5-3 of The Nimbus 5 User's Guide.

Table 5-4 (First presented in volume 1)

ITPR Calibration Constants for the Period 12/12/72 - 2/6/73

$R_s = a_0 + a_1 V$		
$R_s = \text{radiance of th}$	e scene (mw/m <sup>2</sup> ster cm <sup>-1</sup> )	
V = digital counts		
Channel	<b>a</b> <sub>0</sub> *	a,
1	1, 0495	-0.001773
2	141. 78	-0, 1813
<b>3</b> .	166.93	-0, 2046
4	173.02	-0, 2065
<b>5</b> -	174.02	-0, 1940
6	174.99	-0, 1977
7	170, 18	-0, 1995
<u> </u>		

<sup>\*</sup>The calibration constant  $\mathbf{a}_0$  now includes the radiance of the chopper reference blackbody.

Table 5-5 (First presented in volume 2)

ITPR Calibration Constants for the Period 2/7/73 - 3/31/73

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$$R_{s} = a_{0} + a_{1} \text{ V}$$

$$R_{s} = \text{radiance of the scene (mw/m}^{2} \text{ ster cm}^{-1})$$

$$V = \text{digital counts}$$

$$\frac{a_{0}^{*}}{1} \qquad \frac{a_{1}^{*}}{1.061} \qquad -0.001782$$

$$\frac{a_{1}^{*}}{1.061} \qquad -0.1801$$

$$\frac{a_{1}^{*}}{1.061} \qquad -0.2037$$

$$\frac{a_{1}^{*}}{1.061} \qquad -0.2037$$

$$\frac{a_{1}^{*}}{1.060} \qquad -0.2037$$

$$\frac{a_{1}^{*}}{1.060}$$

Table 5-6 (First presented in volume 3)

ITPR Calibration Constants for the Period 4/1/73 - 5/31/73

$R_s = a_0 + a_1 V$		
$R_s = radiance of the$	scene (mw/m <sup>2</sup> ster cm <sup>-1</sup> )	-
V = digital counts		
Channel	<b>a</b> <sub>0</sub> *	a,
1	1. 056	-0.001783
2	141.6	<b>-0.</b> 1815
3	168.8	-0, 2057
1	173. 0	-0, 2068
5	174.0	-0.1946
6	174. 9	-0, 1976
7	170, 1	-0, 1987

<sup>•</sup>The calibration constant a now includes the radiance of the chopper reference blackbody.

<sup>\*</sup>The calibration constant a now includes the radiance of the chopper reference blackbody.

Table 5-7 (First presented in volume 4)

ITPR Calibration Constants for the Period 6/1/73 - 7/31/73

$$R_{s} = a_{0} + a_{1} V$$

$$R_{s} = \text{radiance of the scene (mw/m}^{2} \text{ ster cm}^{-1})$$

$$V = \text{digital counts}$$

$$\frac{a_{0}^{*}}{1 \cdot 0.049} \qquad \frac{a_{1}}{0.001758}$$

$$\frac{a_{1}}{0.001758}$$

$$\frac{a_{1}}{0.0017$$

The following are changes to the ITPR material in Section 5 of The Nimbus 5 User's Guide: (First presented in Volume 2)

• The table, Nimbus 5 Compacted Data Format, at the bottom of page 125 should read:

Word	Format	Description
1 2 3 - 162 163 - 182 183 - 202 203 - 222 223	I Spec 1 Spec 2 (F1, F3) F1 F1 I	GMT (seconds) Julian Day and Year Calibrated IR Data Latitude Longitude Zenith Grid Type (0 = Nadir)
224 - 225	-	(1.2,  or  3 = Scan) Zero Fill

• On page 126 in the paragraph describing Spec 2, the last two lines of that paragraph should read:

以我也是一百万年 我一年也是在我的一年人一年

<sup>\*</sup>The calibration constant a 0 now includes the radiance of the chopper reference blackbody.

". . . 4-word pattern will be repeated thru word 162, resulting in 40 sets of IR measurements."

• The next paragraph (on page 126, after description of Spec 2) should read:

"Each data record will contain 5 major frames of data (225 24-bit words for each major frame) with a total of 1125 24-bit words, or 450 60-bit words. Because major frames will contain either 34, 36, or 40 earth views for each channel, there will be zero fill in the IR data words when 34 or 36 views are present, and the corresponding latitudes and longitudes will be fictitious. This applies also to data samples which occur during retrace. Zero fill will be used to produce the constant-length record when the number of major frames in a day is not a multiple of 5."

• In the next paragraph the following changes should be made:

```
Line 1: ". . . with a density of 556 6-bit bytes . . . "should read: ". . . with a density of 800 6-bit bytes . . . "
```

Line 3: "...per day at 320 major frames...about 640 records" should read: "...per day at 400 major frames...about 960 records"

<u>Line 4</u>: "... will contain about 5 days ... "should read: "... will contain about 4 days ... "

## 5.5 SCR Corrections to the User's Guide

The following information supplements the SCR information in the User's Guide and has been derived from post-launch information. (First presented in volume 3.)

The filters of the A and B channels have minor leaks at short wavelengths. Corrections for these leaks are made using the radiance measured by channel C4 (11.5  $\mu$ m window channel) in the equation,

$$R_{i}' = R_{i} (1 + \gamma_{1}) - a_{i} \gamma_{i} C_{4}$$

where  $R_i$  is the measured channel i Radiance and  $R_i$  is the corrected radiance. Table 5-7 gives values of  $\gamma$  and a  $\gamma$  for the A channels and channel B4. Corrections are of order 1-2 radiance units (mw/m² ster cm²) for the A channels. This is small compared with typical-measured radiances of 80 units, but still 5-10 times larger than the rms noise. The correction to B4 is normally about 5 radiance units.

The B difference channels are not affected by leaks since the differencing operation causes the leaks to cancel exactly. The equation

$$R_{ij} = R_i + (R_i - R_j)\beta_{ij},$$

where  $R_{ij}$  is the calculated channel  $B_{ij}$  radiance and  $R_i$  is the measured channel Bi radiance, is used to derive the B difference channel radiances (B12, B23, and B34) from the measured B channel radiances (B1, B2, B3, and B4). Table 5-8 gives the coefficients  $\beta_{ii}$ .

Table 5-8 Correction Coefficients  $\gamma$  and a $\gamma$  for the SCR Temperature Sounding Channels

Channel	<u> </u>	<u>aγ</u>
<b>A1</b> /	0. 0305	0. 015
A2	0. 0235	0.0105
A3	0. 0146	0.0057
<b>A4</b>	0. 0595	0. 025
B4	0.153	0. 0165

SCR B Difference Channel Coefficients  $\beta$ 

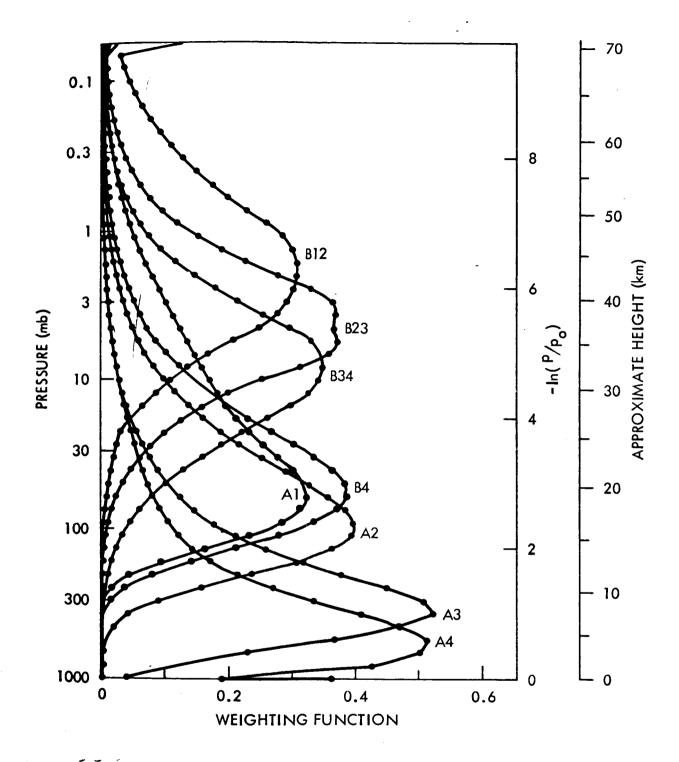
Table 5-9

Channel	β
B12	9.50
B23	10.05
B34	4.83

Figure 5-1 gives the experimenter's current best estimates of the weighting functions of the A channels and B4, when corrected as above, and of the B difference channels. These channels measure emission from carbon dioxide in the  $\nu_2$  band near 15  $\mu$ m. The weighting functions were derived for a climatological mean temperature profile and, to a good approximation, are independent of temperature profile for the range of temperature which occurs in the atmosphere. These weighting functions are a compromise between theoretical computations, using spectral line parameters together with measured filter transmission profiles, and pre-launch test results for the flight instrument. This method is similar to the one used for the Nimbus 5 SCR and was described in more detail by Barnett et al (1972).

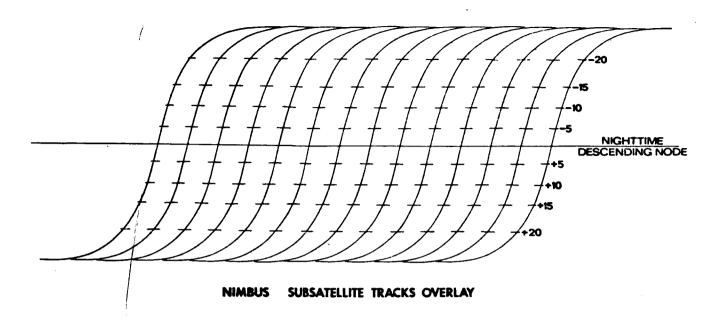
## 5.6 NEMS Corrections to the User's Guide.

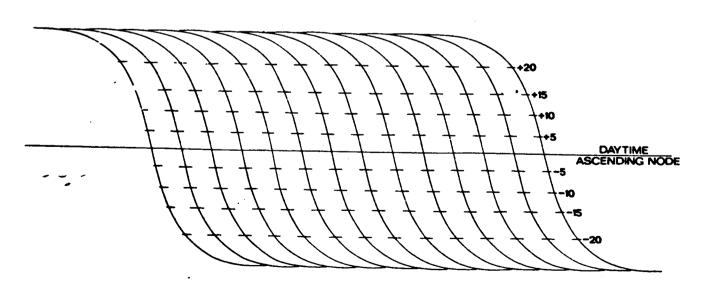
There are no NEMS corrections to the User's Guide.



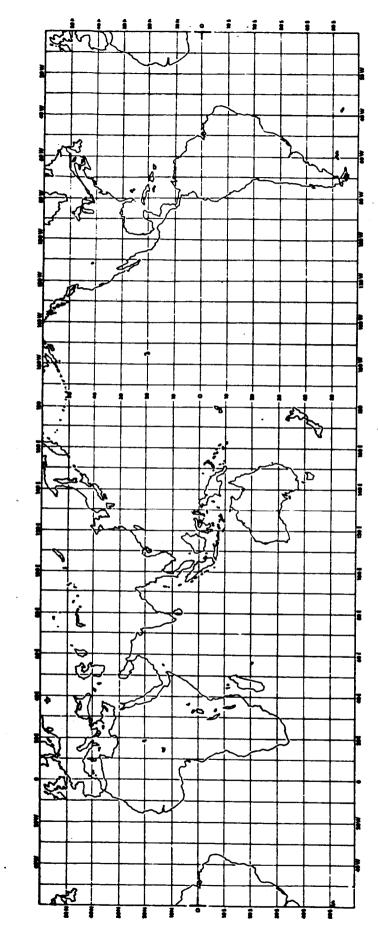
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Figure 5-1. Weighting Functions of the Temperature Sounding Channels of the Nimbus 5 SCR. The height scale is approximate. The abscissa is a weighting function on an arbitary scale.



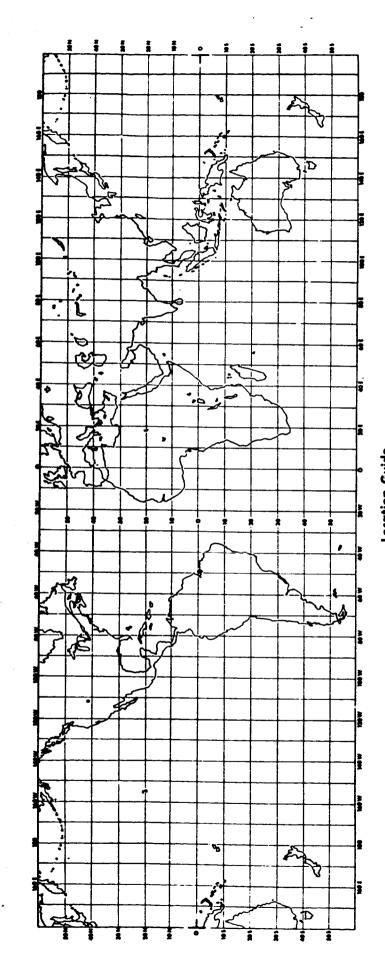


NIMBUS SUBSATELLITE TRACKS OVERLAY

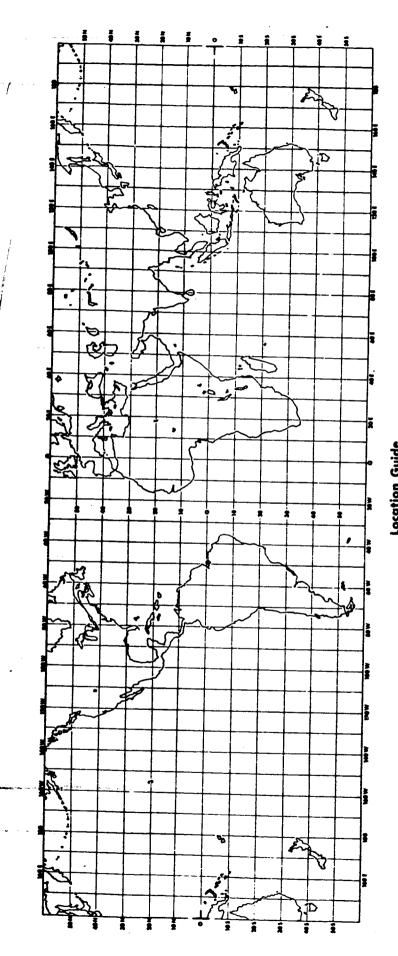


いまでは、これのは、これのでは、これではないできます。 とうしゅう はんかん はんない かんしゅう かんしゅう かんしゅう かんしゅう かんしょう しゅうしん しゅうしん しゅうしゅう しゅうしゅう しゅうしゅう かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう かんしゅう しゅうしゅう しゅうしゅう しゅうしゅう

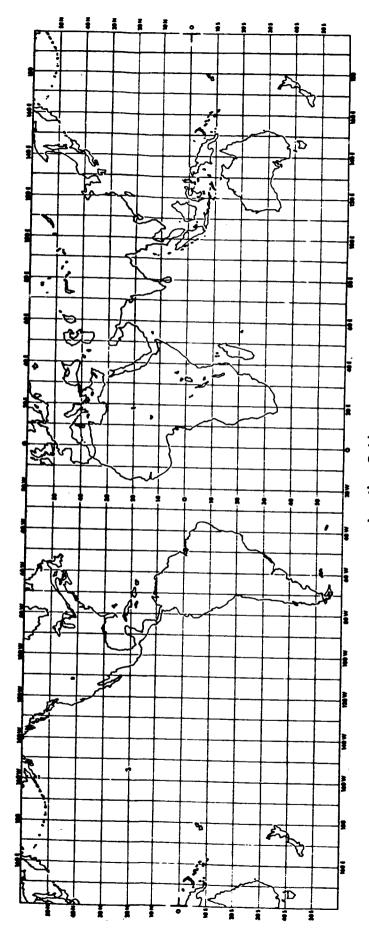
Location Guide Average Scale for Nimbus THIR Nighttime Montages



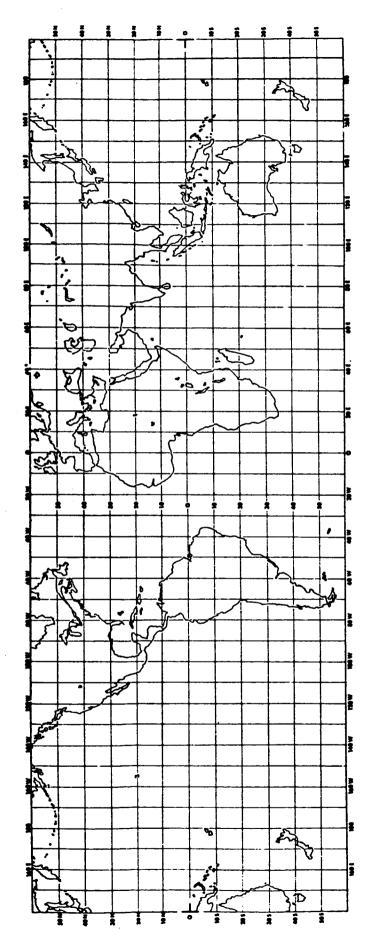
Location Guide Average Scale for Nimbus THIR Daytime Montages



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